19.
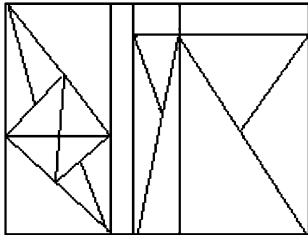
Line and Figure counting

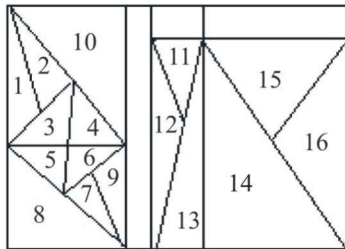## Type - 4

1. How many triangles are there in the following figure?

(a) 25   (b) 24
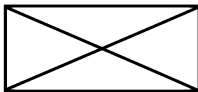(c) 27   (d) 23

Ans. : (c)

Number of one-digit triangle = 16
Number of two digit triangle = (1, 2), (3, 4), (5,6), (3,5), (4,6) (12, 11), (16, 15), (14, 13) (7, 9) = 9
Number of four digit triangle= (1, 2, 3,4) (5, 6, 7, 9) = 2
so total number of triangle = 16 + 9 + 2
                 = 27

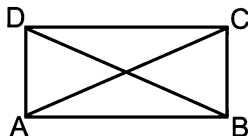**2. How many right angle triangles are there in this figure?**

(a) 6   (b) 4
(c) 7   (d) 8

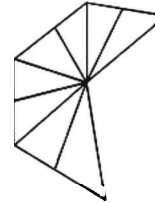**Ans. (b) :** The right angle triangle is present in the given figure-

ΔBCD, ΔDAC, ΔDAB, ΔABC,
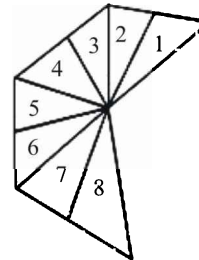

Hence total number of right angle triangles is 4.

3. How many triangles are there in the following figure?
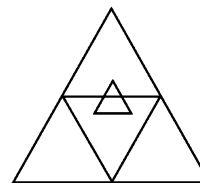

(a) 12   (b) 13
(c) 10   (d) 9

Ans : (a)

Number of one-digit triangle = 8
Number of two-digit triangle = (1, 2), (3,4), (5,6),(7, 8)
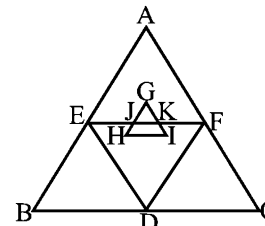   = 4
So total number of triangle = 8+ 4 = 12

4. How many triangles are there in the following figure?
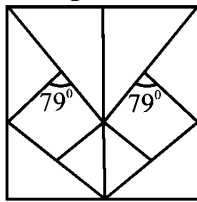

(a) 5   (b) 11
(c) 7   (d) 9

Ans. (c)

Number of triangles = BED, DEF, DFC, AEF, ABC, GHI, GJK
So there are total 7 triangle in the figure.

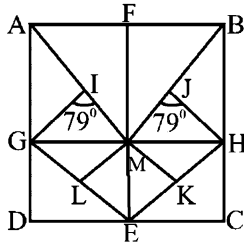**5.** How many right angle triangles are there in this figure?
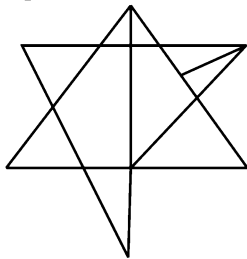

(a) 8   (b) 12
(c) 5   (d) 4

Ans. (d) :

Right angle triangle − GDE, HCE, BFM, AFM

So the right angle triangle in the figure is 4.

6. How many triangles are there in the following figure?

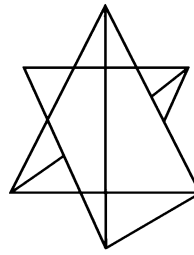(a) 16   (b) 17
(c) 18   (d) 11

Ans : (b) According to the figure-
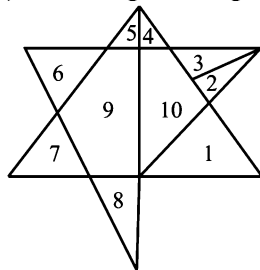
Number of a triangles made of one digit = 8

Number of triangles made of two digit (2, 3) (4, 10) (4,5) = 3

Number of triangles made of three digit (4, 10, 1) (5, 9, 7) (2, 3, 10) (6, 9, 8) (5, 9, 8) = 5

Number of triangles made of six digit (5, 4, 7, 9, 10, 1) = 1

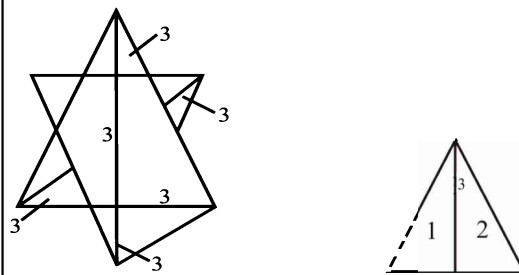Number of total triangles = 8 + 3 + 5 + 1
= 17

7. How many triangles are there in the following figure?
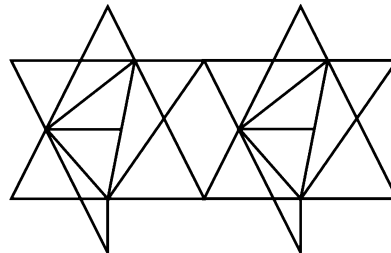

(a) 15   (b) 19
(c) 10   (d) 20

Ans. (b) :

Number of triangles in the figure =
3+ 3+ 3+ 3+ 3+ 3+ 1 = 19

8. How many triangles are there in the following figure?

(a) 38   (b) 37
(c) 30   (d) 39

Ans. (a) :

Number of a triangle made of one digit = 22

Triangle made of two digit = (6,8), (6,7) (2,3), (1,3), (4,5), (9,10), (10,11), (13,14), (14,19), (15,16), (17,23), (17,18), (20,21), (20,22) = 14

Triangle made of three digit = (9,12,13), (11,12,23), (5,6,8), (15,14,19) = 4

Triangle made of four digit = (4,5,6,8), (16,15,14,19)
$$= 2$$
Triangle made of six digit = (1,3,4,5,6,8) (23, 17, 16, 15, 14, 19) $$= 2$$
Triangle made of eight digit = (7,6,5,4,3,2,9,10), (18,17,16,15,14, 13,22,20) $$= 2$$
So the total number of triangles =
$$22 + 14 + 4 + 2 + 2 + 2 = 46$$
Note- The commission considered answer option (a).

9. **How many triangles are there in the following figure?**

(a) 20   (b) 26
(c) 24   (d) 28

Ans : (a)

Number of triangles made of one-one digit = 8
Number of triangles made of two-two digit =
(5, 9), (6, 10), (7, 11), (8, 12), (9, 10) (10, 11) (11, 12) (12, 9) = 8
Number of triangles made of four-four digit = (5, 6, 9, 10), (6, 7, 10, 11) (7, 8, 11, 12), (5, 8, 9, 12) = 4
So the total number of triangles = 8 + 8 + 4 = 20

10. **How many triangles are there in the following figure?**

(a) 23   (b) 24
(c) 27   (d) 22

Ans : (c)
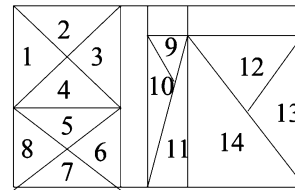
Number of triangles formed by taking one digit = 14
Number of triangles formed by taking two digit = (1,2) (2,3) (3,4) (4,1) (5,6) (6,7) (7,8) (8,5) (9,10) (11,14) (12,13) = 11
Number of triangles formed by taking four digit
$$= (3,4,5,6) (1, 4, 5, 8) = 2$$
So total number of triangle = 27

11. **How many triangles are there in the following figure?**

(a) 7   (b) 5
(c) 8   (d) 6

Ans : (c)

According to figure-
The number of triangles = ΔABC, ΔGHI, ΔJKL, ΔMNO, ΔEDF, ΔAED, ΔEBF, ΔDFC = 8
So there is total of 8 triangles in the figure.

12. **How many triangles are there in the following figure?**

Ans : (a)
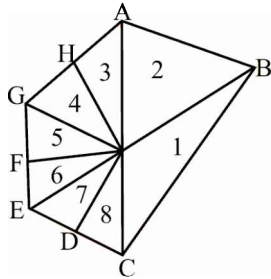
Triangle formed by one digit = 8
Triangle formed by two digit (1,2) (3,4) (5,6) (7,8) = 4
Triangle formed by three digit = (7, 8, 1)= 1
So total number of triangles in the figure = 8 + 4 + 1
= 13
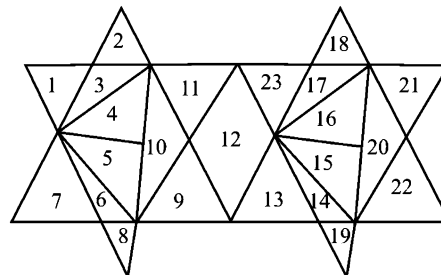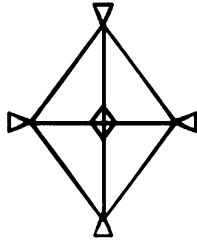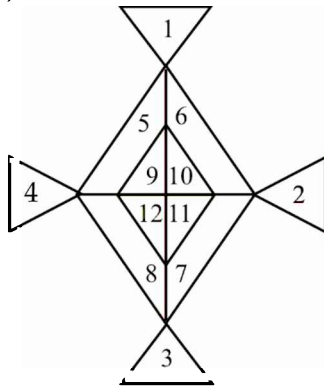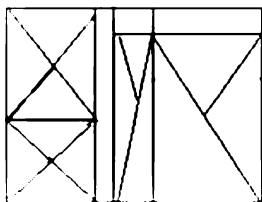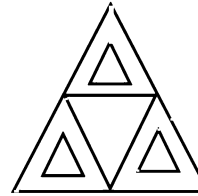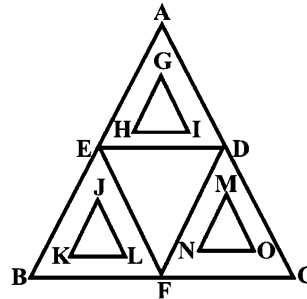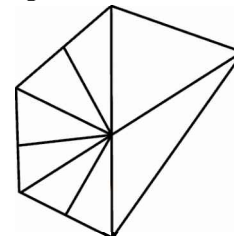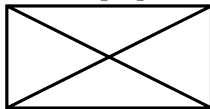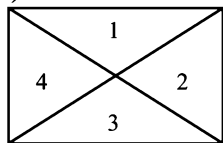
13. How many triangles are there in the following figure?

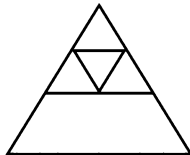(a) 4   (b) 6
(c) 8   (d) 7
RRB Group-D – 19/09/2018 (Shift-I)

Ans. : (c)

Number of triangle made of one digit = 4
Number of triangle made of two digit =
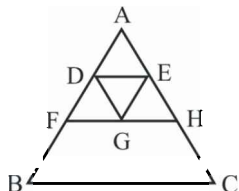(1,2) (2,3) (3,4) (1,4) = 4
So total number of triangles = 8

14. How many triangles are there in the following figure?

(a) 8   (b) 7
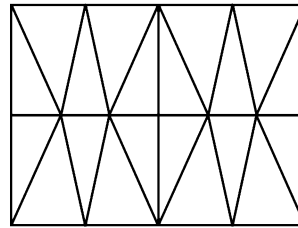(c) 6   (d) 5
RRB Group-D – 18/09/2018 (Shift-III)

Ans. (c) :

Triangles formed in the figure- ΔABC, ΔADE, ΔDEG, ΔDFG, ΔEGH, ΔAFH
So total number of triangles = 6

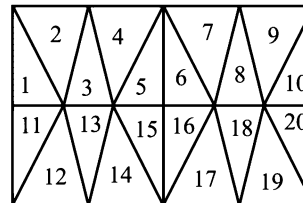**15. How many triangles are there in the following figure?**

(a) 20   (b) 24
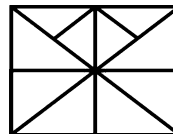(c) 26   (d) 21
RRB Group-D – 20/09/2018 (Shift-III)

Ans : (c)

One digit triangle = 20
Two digit triangle = (1, 11) (5, 15) (6, 16) (10, 20) (5,6) (15, 16) = 6
So there will be total number of triangle 26.
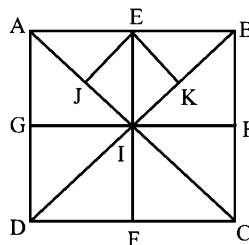
16.

How many triangles are there in the above figure?
(a) 8   (b) 12
(c) 20   (d) 16
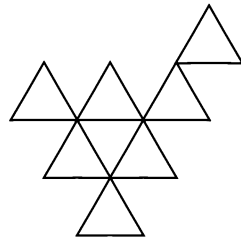**RRB Group-D – 24/09/2018 (Shift-II)**

Ans : (c) Triangles in the picture-

The number of triangle AGI, AEI, EBI, BHI, GDI, FDI, CHI, FCI, AJE, EKB, EJI, EKI, AID, BCI, AIB, DIC, ADC, ABC, BCD, ABD
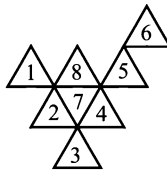So number of total triangles = 20

17. How many triangles are there in the following figure?
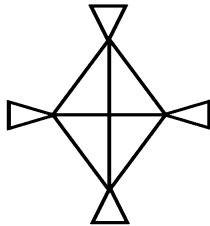

(a) 10　　　　　　(b) 8
(c) 7　　　　　　(d) 9

RRB Group-D – 03/10/2018 (Shift-I)

Ans : (d)

Number of triangles with the help of one digit = 8
Number of triangles acquired with the help of four digit
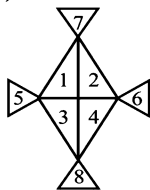= (2,7,8,4) = 1
So total triangles = 8 + 1 = 9

18. How many triangles are there in the following figure?

(a) 10　　　　　　(b) 12
(c) 13　　　　　　(d) 11

RPF Constable 18.01.2019 Shift : I

Ans : (b)

Number of triangles made of one-one digit = 8
Number of triangles made of two-two digit
= (1,2), (3,4), (1,3), (2,4)
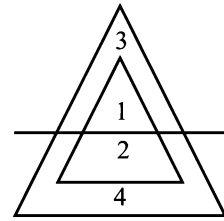So total number of triangle = 8 + 4 = 12

19. How many triangles are there in the following figure?
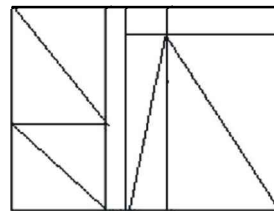

(a) 2　　　　　　(b) 1
(c) 4　　　　　　(d) 3

RRB Group-D – 11/10/2018 (Shift-II)

Ans : (c) Total number of triangle (1), (1,2), (3), (3,4)

So total triangle = 4

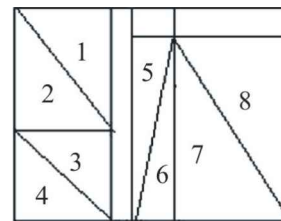**20.** How many right angle triangles are there in this figure?

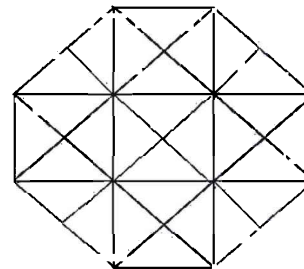(a) 5　　　　　　(b) 3
(c) 8　　　　　　(d) 4

RRB Group-D – 11/10/2018 (Shift-II)

Ans : (c)

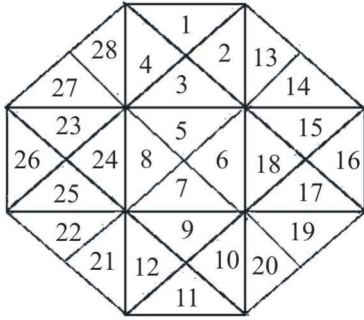So from figure clear that the number of total right angle triangles = 8

21. What is the count of the smallest triangular units presents in the following figure?
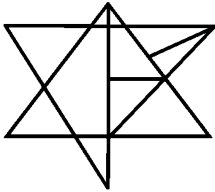

(a) 24　　　　　　(b) 22
(c) 26　　　　　　(d) 28

RRB Group-D – 12/10/2018 (Shift-III)

Ans : (d)

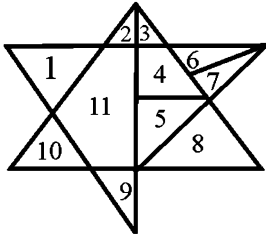So from picture-

Clear that the number of small triangular units = 28

22. How many triangles are present in the below figure?

(a) 16   (b) 11

(c) 18   (d) 17

Ans : (c)

Formed by taking one digit Δ = 1, 2, 3, 6, 7, 8, 5, 9, 10 = 9

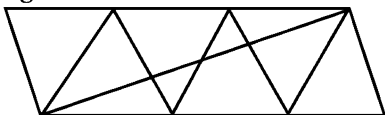Formed by taking two digit Δ = (2, 3) (3, 4) (6,7) = 3

Formed by taking three digit Δ =
(2, 11, 10) (1, 11, 9) (3, 4, 5) (2,11,9) = 4

Formed by taking four digit Δ = (3, 4, 5, 8) (4, 5, 6, 7) = 2

Formed by taking seven digit Δ = (2, 3, 4, 5, 8, 10, 11) = 1
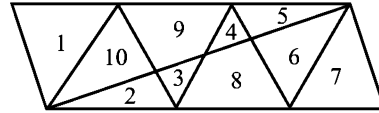
So total Δ = 9+ 3 + 4 + 2 + 1 = 19

23. How many triangles are present in the below figure?

(a) 8   (b) 6

(c) 10   (d) 18

Ans : (d)

Number of one digit triangles = 1, 2, 3, 4, 5, 6, 7 = 7

Number of two digit triangles =
(2,3) (9,3) (4,8) (5, 6), (4,5) = 5

Number of three digit triangles = (2, 3, 8) (9, 4, 5) = 2

Number of four digit triangles =
(2, 3, 8, 6) (10, 9, 4, 5) = 2

Number of five digit triangles =
(2, 3, 8, 6, 7) (1, 10, 9, 4, 5) = 2

So total number of triangles = 7 + 5 + 2 + 2 + 2 = 18

24. How many triangles are present in the below figure?
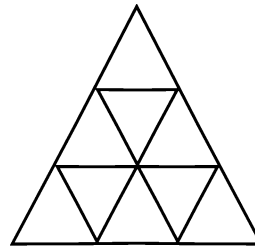
(a) 12   (b) 14

(c) 15   (d) 13

Ans : (d)
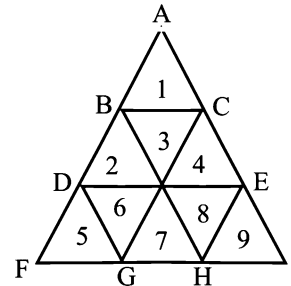
Number of triangles = 1, 2, 3, 4, 5, 6, 7, 8, 9, ΔADE, ΔFBH, Δ IGC, ΔAFI

So total number of triangles = 13

25. How many triangles are present in the below figure?
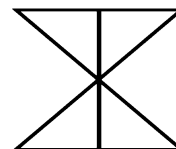
(a) 4   (b) 5

(c) 6   (d) 7

Ans : (c)
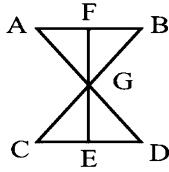
ΔAFG, ΔBFG, ΔAGB, ΔCEG, ΔDEG, ΔCGD

So total number of triangles = 6

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26. How many triangles are present in the below figure?

(a) 16   (b) 14
(c) 15   (d) 17

RRB Group-D – 30/10/2018 (Shift-II)
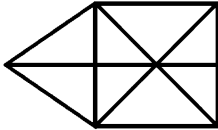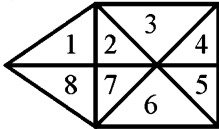**RRB Group-D – 01/11/2018 (Shift-II)**
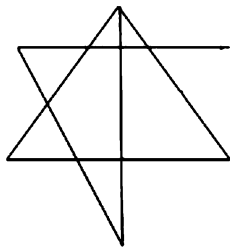**RRB ALP & Tec. (20-08-18 Shift-I)**

Ans : (d)

Triangle made of one digit = 8
Triangle made of two digit = (1, 2), (8, 7), (2, 7), (1, 8), (4, 5) = 5
Triangle made of three digit = (4, 5, 6) (3, 2, 7) (2, 7, 6) (3, 4, 5) = 4
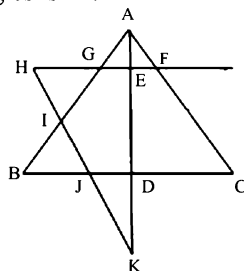So total number of triangles is 17.

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27. How many triangles are there in the following figure?
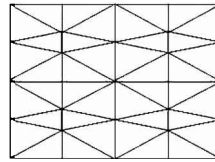

(a) 6   (b) 8
(c) 7   (d) 11

RPF Constable 18.01.2019 Shift : III

Ans. (d) : Number of triangles ABC, ABD, ADC, AGF, AGE, AEF, GHI, IBJ, JKD, KHE, AIK so total number of triangles is 11.

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28. How many right-angle triangles are there in the following figure?

(a) 16   (b) 12
(c) 15   (d) 14

RRB Group-D – 18/09/2018 (Shift-II)

Ans. (a) :
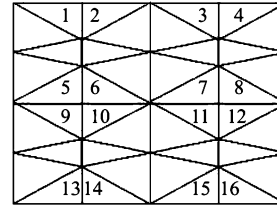
So number of right angle triangle = 16

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29. How many triangles are there in the following figure?
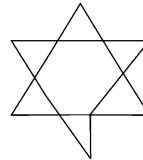
(a) 7   (b) 11
(c) 6   (d) 8

RRB Group-D – 24/09/2018 (Shift-I)

Ans : (a) The give figure is as follows-
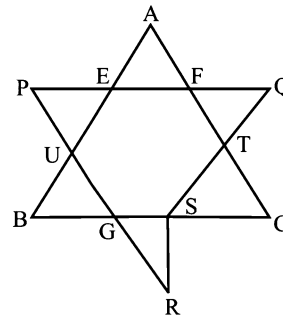
Total number of triangles
= ΔABC, ΔAEF, ΔPUE , ΔBGU, ΔGRS, ΔCST, ΔTQF
= 7

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30. How many triangles are there in the following figure?
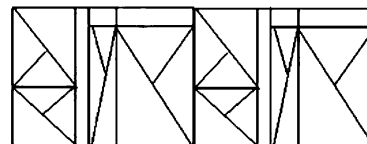
(a) 30   (b) 20
(c) 14   (d) 34

RRB Group-D – 25/09/2018 (Shift-I)

Ans : (d)
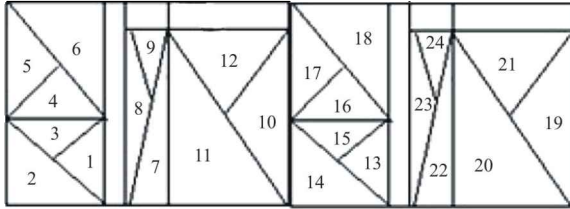
Number of triangles formed by one digit = 24
Number of triangles formed by two digit = (1, 3), (4, 5), (8,9), (10,12), (7, 11), (16, 17), (13, 15), (23, 24), (19, 21) (20, 22) = 10
So total number of triangles = 24 + 10 = 34

31. How many triangles are there in the following figure?


(a) 22   (b) 21
(c) 27   (d) 20

RRB Group-D – 25/09/2018 (Shift-II)

Ans : (c)

ΔBJK + ΔIJK + ΔIFE + ΔIJF + ΔIKE + ΔBGF + ΔBDE + ΔAGF + ΔAFH + ΔFEH + ΔHEC + ΔEDC = 12
ΔAGH + ΔCHD + ΔABF + ΔCBE + ΔJEF + ΔEKF + ΔKJE + ΔFJE = 8
ΔBKF + ΔBJE + ΔBFE + ΔAIC + ΔAKB + ΔCJB + ΔABC = 7
So total number of triangles 12 + 8 + 7 = 27

32. How many triangles are there in the following figure?

(a) 34   (b) 35
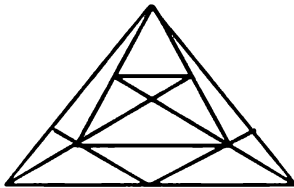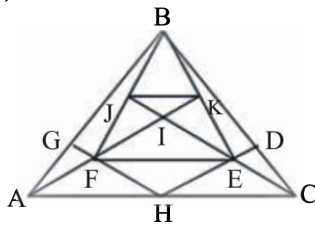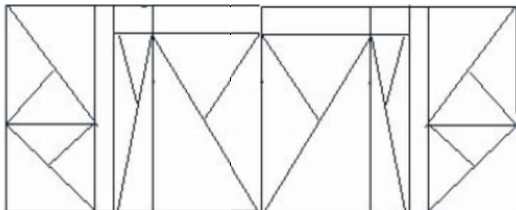(c) 32   (d) 24

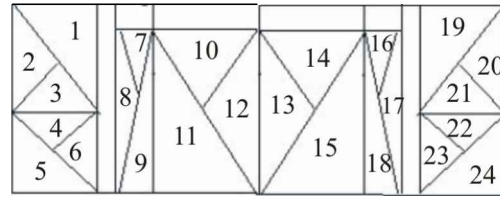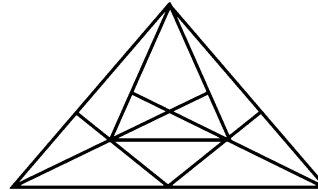**RRB Group-D – 25/09/2018 (Shift-II)**

Ans : (b)

Figure 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Δ made of number = 24
Figure (2, 3), (4, 6), (7, 8), (10, 12), (13, 14), (16, 17), (20, 21), (22, 23) Δ made of number = 8
Figure (9, 11), (15, 18), (10, 12, 13, 14) triangles made of three = 3
So total number of triangles = 24 + 8 + 3 = 35

33. How many triangles are there in the following figure?

(a) 16   (b) 23
(c) 10   (d) 20

RRB Group-D – 25/09/2018 (Shift-III)

Ans. (b) :

Number of triangles made with one digit = 10
Number of triangles made with two digit = (1,2) (1,11) (8,9) (8,7) (4,5) (4,3) (5,6) (6,3) = 8
Number of triangles made with four digit = (1,2,6,3) (3,4,7,8) (3,4,5,6) (5,10,11,9) = 4
Number of triangles made with all digit = 1
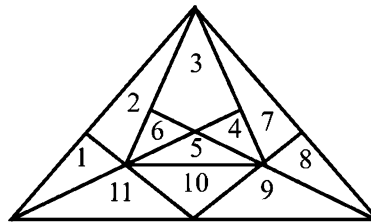Total number of triangles = 10 + 8 + 4 + 1 = 23

34. How many triangles are there in the following figure?
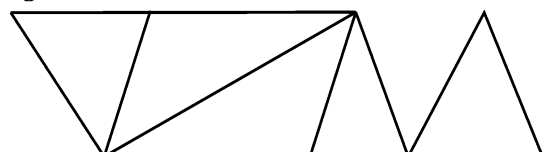
(a) 5   (b) 7
(c) 6   (d) 9

RRB Group-D – 26/09/2018 (Shift-II)

Ans. (b) :

Number of triangles is 1, 2, 3, 4, 5, (1, 2),(3, 4).

So total number of triangles = 7

35. How many triangles are there in the following figure?

(a) 19   (b) 17
(c) 18   (d) 20

Ans : (d)

Number of triangles formed with the help of one digit
$$= 14$$
Number of triangles formed with the help of two digit
$$= (1, 2) (3,4)(9,10) (8,7) (13, 14)$$
$$= 5$$
Number of triangles formed with the help of four digit
$$= (1, 2,3,4)$$
$$= 1$$
So total triangles = 14 + 5 + 1 = 20

36. How many triangles are there in the following figure?

(a) 17   (b) 23
(c) 18   (d) 19

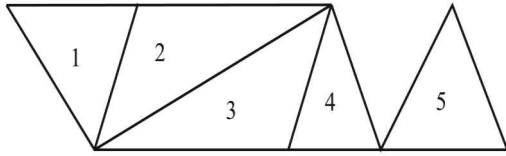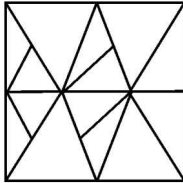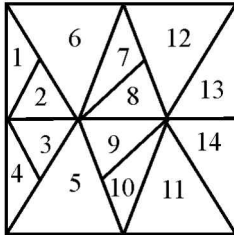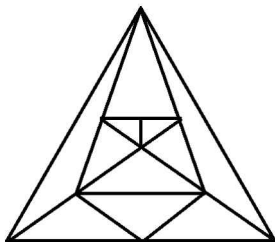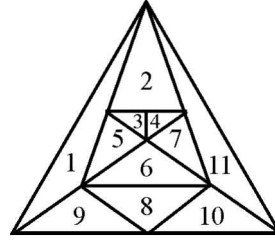**Ans : (b)**

Triangle formed with the help of one digit = 11

Triangle formed with the help of two digit = (6,7) (5,6) (3,4) = 3

Triangle formed with the help of three digit = (3,4,5) (3,4,7) = 2

Triangle formed with the help of four digit
$$= (5,3,4,2)(7,3,4,2)(9,8,10,6) = 3$$

Triangle formed with the help of five digit (1,2,3,4,5)(2,3,4,7,11) = 2

Triangle formed with the help of six digit (2,3,4,5,6,7)
$$= 1$$

Triangle formed with the help of eleven digit
$$= (1,2,3,4,5,6,7,8,9,10,11) = 1$$

Total number of triangle = 11 + 3 + 2+ 3+ 2+ 1+ 1 = 23

37. How many triangles are there in the following figure?
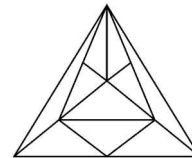
(a) 21   (b) 23
(c) 22   (d) 20

Ans. (b)
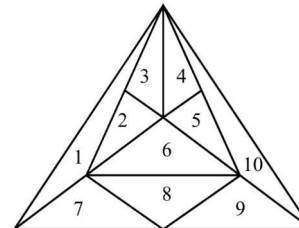
Number of triangle made with one digit = 10

Two   "   " = (2, 3) (4, 5) (2, 6) (5, 6) = 4

Three digit   " " " = (1,2,3) (4,5,10) (2,3,4) (3,4,5,) = 4

Four digit   "   "   " = (3, 4,5,10) (1,2,3,4) (6,7,8,9) = 3

Five digit "   "   " = (2,3,4,5,6) = 1

Ten digit   "   "   " = 1

Total number of triangles = 10 + 4 + 4 + 3 + 1 + 1 = 23

38. How many triangles are there in the following figure?

(a) 12   (b) 11
(c) 17   (d) 8

RRB Group-D – 28/09/2018 (Shift-I)

Ans : (c)

ΔABC, ΔALH, ΔLHG, ΔDLG, ΔBGJ, ΔJIF, Δ GIH, Δ HEI, Δ HEK, ΔKIC, Δ HIK, Δ HIC, Δ DHF, Δ DHG, Δ AGH, Δ GHF, ΔBGI
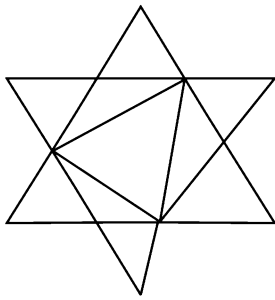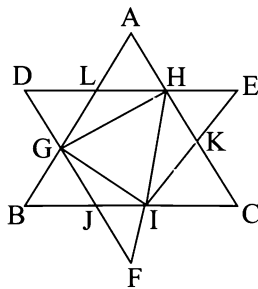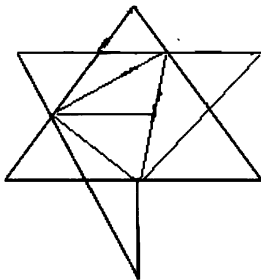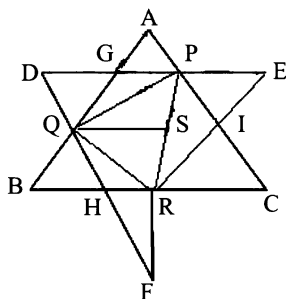So total number of triangles is 17.

39. How many triangles are there in the following figure?

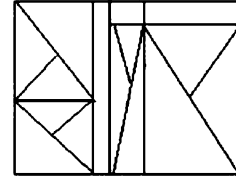(a) 21   (b) 17
(c) 19   (d) 20

RRB Group-D – 09/10/2018 (Shift-I)

Ans. (c) :

Total number of triangle in the given figure = ΔAGP, ΔAQP, ΔGPQ, ΔPQS, ΔQSR, ΔPQR, ΔPEI, ΔPER, ΔPCR, ΔIRC, ΔGDQ, ΔQBH, ΔQRF, ΔQRH, ΔHRF, ΔPDQ, ΔABC, ΔDEF, ΔQRB = 19

40. How many triangles are there in the following figure?

(a) 17   (b) 15
(c) 16   (d) 14

RRB Group-D – 10/10/2018 (Shift-III)

Ans : (a)

Number of one digit triangle = 12
Number of two digit triangle = (2,3) (4,5) (7,8) (10,11) (9, 12) = 5
Total number of triangles = 12 + 5 = 17

41. How many triangles are there in the following figure?

(a) 8   (b) 6
(c) 7   (d) 5

RRB Group-D – 11/10/2018 (Shift-III)

Ans : (b)

Total Number of Triangles = ΔABC + ΔAGF + ΔGBH + ΔGFH + ΔFCH + Δ DEF = 6 Triangles

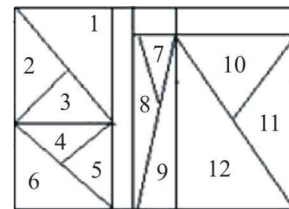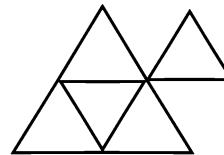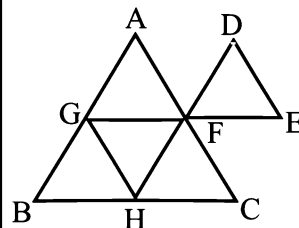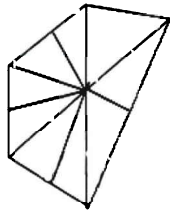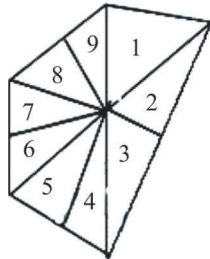**42.** How many triangles are there in the following figure?

(a) 12   (b) 14
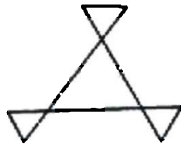(c) 15   (d) 8

RRB Group-D – 11/10/2018 (Shift-III)

Ans : (c)

Triangles made of one digit = 9
Triangles made of two digit = (2, 3) (5, 4) (7, 6) (8, 9)
         = 4
Triangles made of three digit = (1, 2, 3) = 1
Triangles made of four digit = (2, 3, 4, 5) = 1
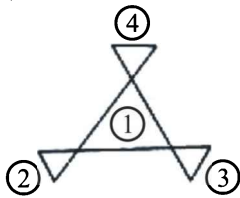Total triangles = 9 + 4 + 1 + 1 = 15

43. How many triangles are present in the following figure ?
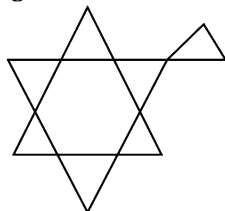

(a) 3   (b) 2
(c) 4   (d) 5

RPF Constable 19.01.2019 Shift : III

Ans : (c)

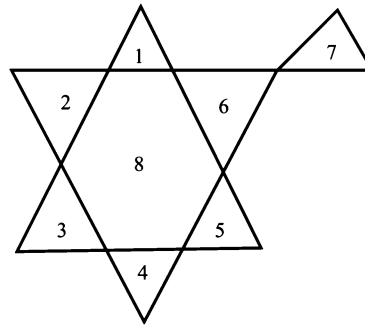

So number of triangles required = 4

44. How many triangles are present in the following figure ?
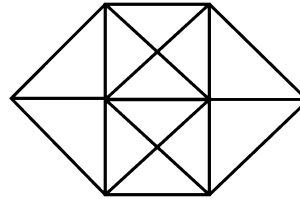

(a) 7   (b) 6
(c) 9   (d) 8

RRB Group-D – 22/10/2018 (Shift-II)

Ans : (c)

$\Rightarrow$ Number of Δ formed on taking one digit = 7

$\Rightarrow$ Number of Δ formed by taking four digit
      = (1, 3, 5, 8), (2, 4, 6, 8) = 2
So total number of Δ = 9

45. How many triangles are there in the following figure?

(a) 32   (b) 28
(c) 30   (d) 22

RRB Group 'D' 07/12/2018 (Shift-I)

Ans : (b)
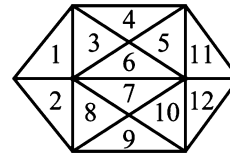
Number of Δ formed by taking one digit = 12
Number of Δ formed by taking two digits
      = (1, 2), (3, 4), (6, 5), (3,6), (4, 5) (7, 8), (8,9), (7,10), (10,9), (11,12) = 10
Number of Δ formed by taking three digits
      = (1, 3, 6), (2, 8,7), (6, 5,11) (7, 10, 12) = 4
Number of Δ formed by taking four digits
      = (3, 6, 7, 8), (5, 6, 7, 10) = 2
So total number of Δ =12 + 10 + 4 + 2 = 28

46. How many triangles are there in the following figure?
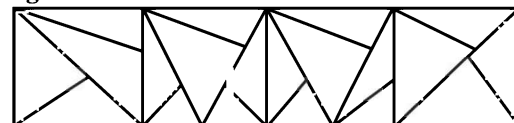
(a) 27   (b) 34
(c) 31   (d) 26

RPF SI 12.01.2019 Shift : I

Ans : (c)

∵ Number of triangle made up of one digit = 20

Number of triangle made up of two digit = 10

Number of triangle made up of four digit = 1

So total number of triangles = 20+10+1=31

47. How many triangles are there in the following figure?
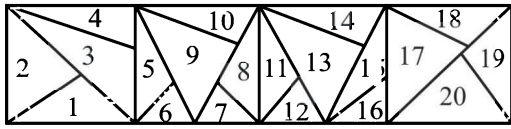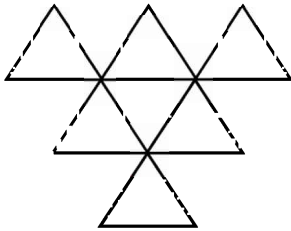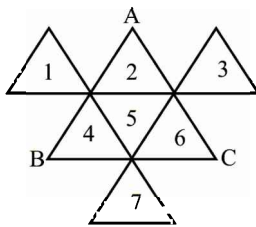

(a) 6   (b) 10
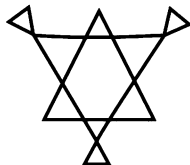(c) 12   (d) 8

RRB Group-D – 05/12/2018 (Shift-II)

Ans. (d)

It is clear from the above picture that the total number of triangles

= ΔABC + represented by the number of triangles

= 1 + 7 = 8

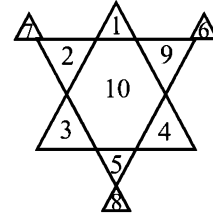So the total number of triangles in the given figure is 8.

48. How many triangles are there in the following figure?

(a) 11   (b) 8
(c) 9   (d) 15

RRB Group-D – 05/12/2018 (Shift-III)

Ans : (a)

The following is the number of triangles in the appropriate figure.
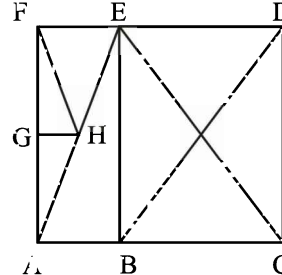
Number of small triangles = 9

Number of large triangles = 2

Total number of triangles = 9 + 2 = 11

49. How many right angle triangle is present in the figure given below?

(a) 5   (b) 7
(c) 9   (d) 8

RRB Group-D – 03/12/2018 (Shift-II)

Ans : (d)

Number of right triangles in rectangle BCDE

ΔBEC, ΔECD + ΔEDB + ΔBCD = 1 + 1 + 1 + 1 = 4

Number of triangles in the right triangle AEF –

ΔAEF + ΔFGH + ΔAGH = 1 + 1 + 1 = 3 and

ΔAEB = 1

So the number of total right triangles in the given figure

is = 4 + 3 + 1

= 8

50. How many triangles are there in the following figure?
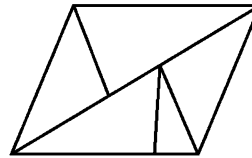
(a) 6   (b) 8
(c) 10   (d) 7

RRB Group-D – 03/12/2018 (Shift-III)

Ans. (b) :

The triangle in the given figure is as follows

ΔABC, ΔBGC, ΔABG, ΔAEF, ΔEFD, ΔDFC, ΔADF, ΔADC

So total number of triangle = 8

51. How many triangles are there in the following figure?

(a) 9 (b) 6
(c) 8 (d) 7
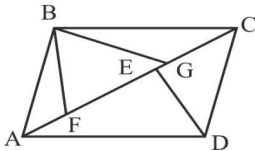
Ans. (a) :

Number of triangles in triangle ABC = 6
Number of triangles in triangle ADC = 3
So total number of triangle = 6 + 3 = 9

52. How many triangles are there in the following figure?
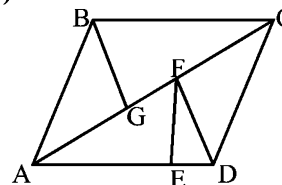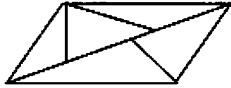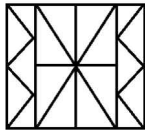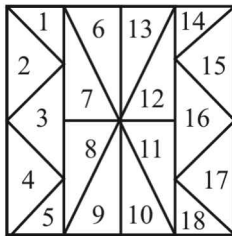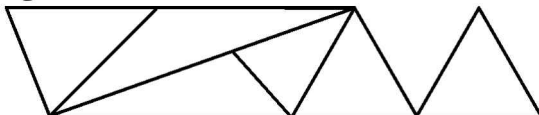

(a) 26 (b) 18
(c) 20 (d) 13

Ans. (a)

Number of Δ formed by taking one digit = 18

Number of Δ formed by taking two digit = (7, 8), (9, 10), (11, 12), (6, 13) = 4

Number of Δ formed by taking four digit = (7, 8, 9, 10), (11, 12, 13, 6), (8, 7, 6, 13), (9, 10, 11, 12) = 4
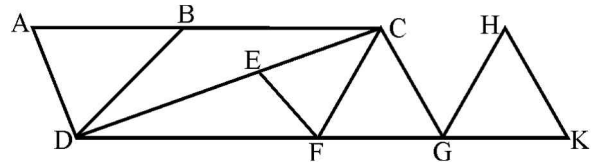
∵ total number of Δ = 18 + 4 + 4 = 26

53. How many triangles are there in the following figure?
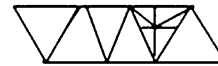

(a) 6 (b) 8
(c) 9 (d) 7

Ans : (c)

The figure will have the following triangles.

ΔADC, ΔDEF, ΔDCG, ΔABD, ΔDBC, ΔDCF, ΔCFG, ΔEFC and ΔGHK

So total number of triangles is 9.

54. How many triangles are there in the following figure?

(a) 12 (b) 18
(c) 20 (d) 30

Ans : (b)

Number of triangles formed by one digit = 11

Number of triangles formed by two digits = (5, 6), (10, 5), (6, 7), (9, 8) = 4

Number of triangles formed by three digits
= (6, 7, 8), (5, 9, 10) = 2

Number of triangles formed by six digits
= (5, 6, 7, 8, 9, 10) = 1

Total triangles = 11 + 4 + 2 + 1 = 18

55. How many triangles are there in the following figure?

(a) 14 (b) 6
(c) 10 (d) 8

Ans. (c) :

Number of triangles made of one-one digit = 8
Number of triangles made of two-two digit = (1,2) (7,8) = 2
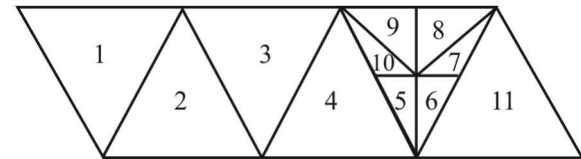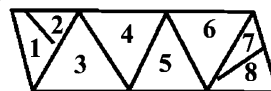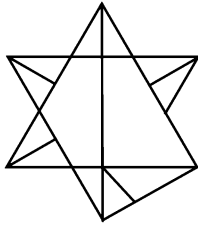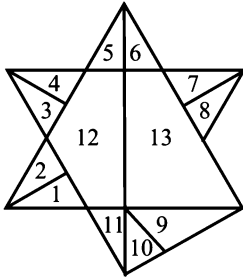So total number of triangles = 8 + 2 = 10

56. How many triangles are there in the following figure?
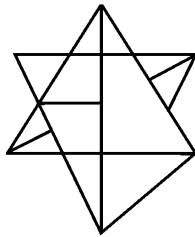

(a) 20   (b) 21
(c) 23   (d) 19

RRB Group-D – 12/11/2018 (Shift-III)

Ans : (c)

Triangles formed by one digit = 11
Triangles formed by two digit
     = (1, 2), (3, 4) (5, 6), (7, 8), (9, 10), (6, 13) = 6
Triangles formed by three digit
     = (5, 11, 12), (9, 10, 11) = 2
Triangles formed by four digit
     = (1, 2, 5, 12), (6, 9, 10, 13), (3, 4, 11, 12) = 3
Triangles formed by six digit = (1, 2, 5, 6, 12, 13) = 1
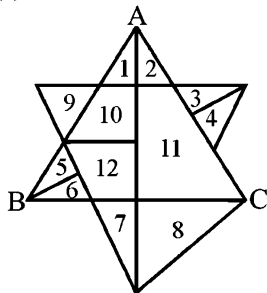Total number of triangle = 11 + 6 + 2 + 3 + 1 = 23

57. How many triangles are there in the following figure?

(a) 21   (b) 15
(c) 10   (d) 19

RPF SI 12.01.2019 Shift : II

Ans : (a)

Number of triangles made of 1 digit = 9
     (10,11 and 12 triangles will not be formed)
Number of triangles made of 2 digit = (1,2), (3,4), (7,8), (5,6), (12,7), (1,10) (2,11) = 7
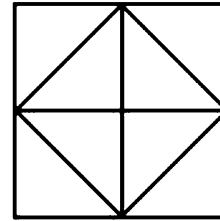Number of triangles made of 3 digit = (2,11,8) = 1
Number of triangles made of 4 digit =(1,10,12,7), (9,10,12,7) = 2
Number of triangles made of 5 digit = (1,10,12,5,6) · 1
Number of triangles made of 7 digit = ∆ABC = 1
So total number of triangles = 9 + 7 + 1 + 2 + 1 +1
         = 21

58.

How many triangles are present in the above figure ?

(a) 12   (b) 10
(c) 11   (d) 13

RRB ALP & Tec. (09-08-18 Shift-I)
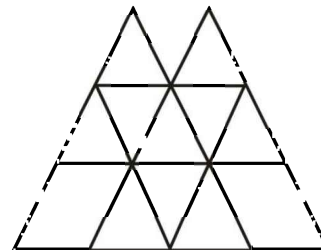**RRB Group-D – 05/11/2018 (Shift-II)**

Ans : (a)
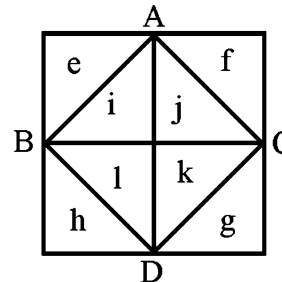
Number of triangle formed by one letter = 8
Number of triangle formed by two letter = 4
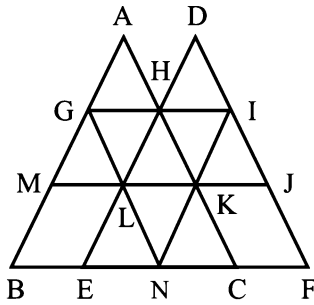So number of total triangles = 8 + 4 = 12

59. How many triangles are there in the following figure?

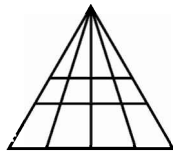(a) 16   (b) 15
(c) 14   (d) 18

RRB JE - 27/05/2019 (Shift-I)

Ans : (d)

Triangle formed in the figure – AGH, DHI, GML, GHL, LHK, HKI, KIJ, LEN, LNK, NKC, AMK, DLJ, NIF, GNI, EHC, GBN, ABC, DEF

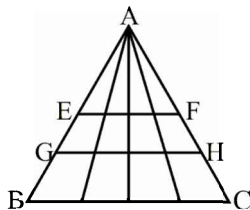So total number of triangles = 18

60. **How many triangles are there in the following figure?**

(a) 26   (b) 21

(c) 34   (d) 30

Ans : (d)

Number of triangles in ΔAEF = 10

Number of triangles in ΔAGH = 10

Number of triangles in ΔABC = 10

So total number of Δ = 10 + 10 + 10 = 30

61. **How many triangles are there in the following figure?**

(a) 5   (b) 7

(c) 4   (d) 8
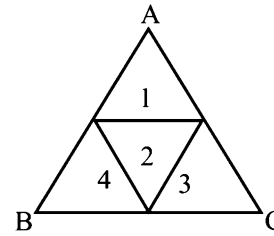
Ans : (a)

The total triangle formed in the given figure is ΔABC, 1, 2, 3 and 4.

So total number of triangle = 5

62. **How many triangles are there in the following figure?**
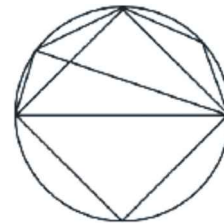
(a) 10   (b) 11

(c) 12   (d) 8

Ans : (a)
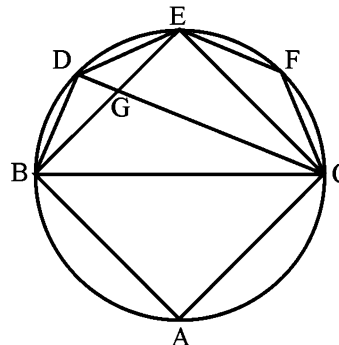
ΔABC + ΔBGC + ΔGEC + ΔEFC + ΔBEC + ΔBDE + ΔBDC + ΔDEC + ΔBDG + ΔDGE = 10

So there are 10 triangles in the figure.

63. **How many triangles are there in the following figure?**
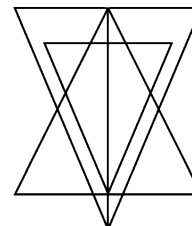
(a) 23   (b) 20

(c) 27   (d) 18

Ans : (c)
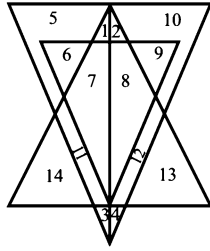
Triangles formed by one digit = 1, 2, 3, 4, 6, 9, 13, 14
= 8
Triangles formed by two digit
= (1, 2), (3, 4), (5,6), (9, 10), (6,7), (11, 14), (12, 13), (1, 7), (2, 8), (8, 9) = 10
Triangles formed by four digit
= (1, 7, 11, 14), (2, 8, 12, 13), (6, 7, 8, 9), (1, 7, 11, 3), (2, 8, 12, 4) = 5
Triangles formed by six digit
= (3, 11, 7, 1, 5, 6), (4, 12, 8, 2, 9, 10) = 2
Triangles formed by eight digit = 1
Triangles formed by twelve digit = 1
So total number of triangles = 8 + 10 + 5 + 2 + 2 = 27

64. How many triangles are there in the following figure?

(a) 29   (b) 26
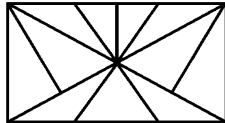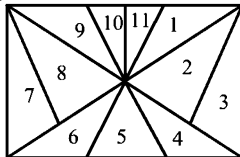(c) 27   (d) 28

Ans. (d)

Number of triangles formed by one digit
= 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 = 11
Number of triangles formed by two digit
= (7, 8), (9, 10), (10,11) , (11, 1), (2, 3), (4, 5), (5, 6) = 7
Number of triangles formed by three digit
= (4, 5, 6), (9, 10, 11), (10, 11, 1) = 3
Number of triangles formed by four digit
= (9, 10, 11, 1) = 1
Number of triangles formed by five digit
= (7, 8, 6, 5, 4), (9, 10, 11, 1, 2) (6, 5, 4, 2, 3), (8, 9, 10, 11, 1) = 4
Number of triangles formed by six digit
= (9, 10, 11, 1, 2, 3) (7, 8, 9, 10, 11, 1) = 2
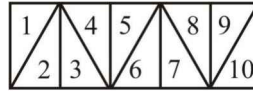So total number of triangles = 11 + 7 + 3 + 1 + 4 + 2
= 28

65. Select the option that represents the number of triangles in the given figure.

(a) 12   (b) 10
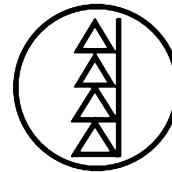(c) 14   (d) 15

Ans : (c)

Triangle formed by a number = 10
Triangle formed by two number = (2,3), (4,5), (6,7), (8,9) = 4
Total triangle = 14

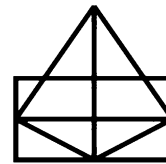**66.** Select the option that represents the number of triangles in the given figure.

(a) 6   (b) 5
(c) 4   (d) 7

Ans : (d) In the given figure, a line draw sequentially serial touching four triangles and those triangles which form three triangles. So total number of triangles = 4+3=7

67. Select the option that represents the number of triangles in the given figure.

(a) 14   (b) 15
(c) 13   (d) 17

Ans : (b)
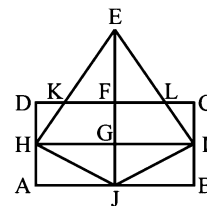
The following number of triangles in the figure is ....
ΔEKF, ΔEFL, ΔEKL, ΔEHG, ΔEGI, ΔEHI, ΔEHJ, ΔEJI, ΔDKH, ΔHAJ, ΔHGJ, ΔLIC, ΔJIB, ΔJGI, ΔHJI,
So there are total 15 triangles in the above in the figure.

68. Select the option that represents the number of triangles in the given figure.
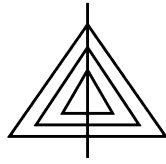
(a) 6   (b) 10
(c) 7   (d) 9

Ans : (d)
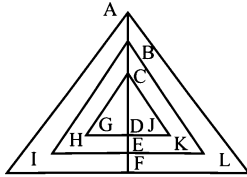
On naming each of the sides of the given question figure the total given triangles in the figure in as follows - ....

ΔAIL, ΔBHK, ΔCGJ, ΔAIF, Δ BHE, Δ CGD, ΔAFL, ΔBEK, ΔCDJ

So total number of triangles is 9.

69. Select the option that represents the number of triangles in the given figure :
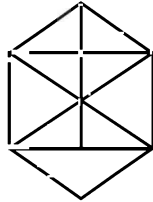
(a) 17   (b) 14
(c) 18   (d) 16

Ans : (c)
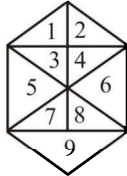
Number of triangles formed by a number = 9
Number of triangle consisting of two-two number = (1,2) (3,4), (7,8), (1,3), (2,4) = 5
Number of triangles consisting of three-three number
    = (5+3+4), (7+8+6), (3+4+6), (5+7+8) = 4
So the total number of triangles = 9+5+4= 18

70. How many triangles are present in the following figure?

(a) 18   (b) 19
(c) 17   (d) 16

Ans : (a) The number of triangle

1. ΔABH,	2. ΔBJC,	3. ΔGHI,	4. ΔIJE,
5. ΔGIE,	6. ΔCDE,	7. ΔGEF,	8. ΔICE,
9. Δ GJE,	10. ΔHBE,	11. ΔHEG,	12.ΔBCE,
13. ΔBED,	14. ΔHEF,	15. ΔGCE,	16.ΔAGC,
17. ΔAFD,	18. ΔJCE		

So total number of triangles = 18

71. How many triangles are present in the following figure?

(a) 14   (b) 16
(c) 15   (d) 12

Ans : (c) The following are the number of triangles in the figure.
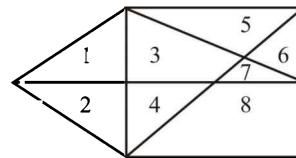
(1), (2), (4), (5), (6), (7) (1+2), (6+7), (3+4), (2+4), (3+7), (5+6), (1+3+7), (3+4+5), (6+7+8)

So total number of triangles = 15

72. How many triangles are present in the following figure ?

(a) 6   (b) 8
(c) 9   (d) 10

Ans : (d)

According to the figure
ΔAFG, ΔEFJ, ΔCIH, ΔDGH, ΔBIJ, ΔFBD, ΔAHB, ΔGCE, ΔEDI, ΔAJC
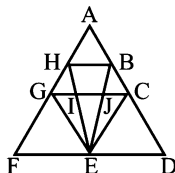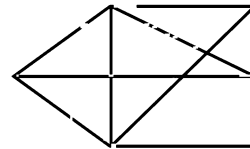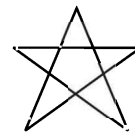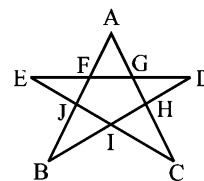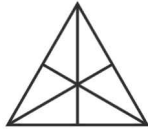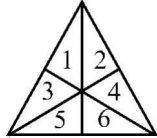that means total of ten triangles are present in the above figure.

73. Select the option that represents the number of triangles in the following figure.
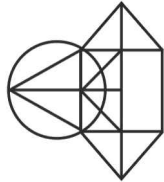

(a) 15   (b) 17
(c) 16   (d) 12

RRB ALP & Tec. (10-08-18 Shift-III)

Ans : (c)

Triangle formed by 1 digit = 6
Triangle formed by 2 digit = (1,3), (2,4), (5,6) = 3
Triangle formed by 3 digit = (1,3,5), (2,4,6), (4,6,5), (3,5,6), (3,1,2), (1,2,4) = 6
Triangle formed by 6 digit = 1
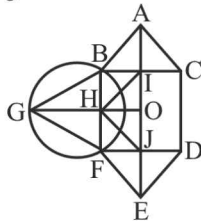So total number of triangles = 6 + 3 + 6 + 1 = 16

74. How many triangles are present in the following figure?
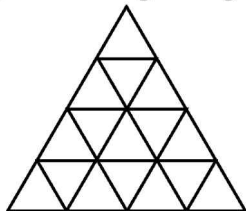

(a) 12   (b) 15
(c) 14   (d) 13

RRB ALP & Tec. (09-08-18 Shift-II)

Ans : (c) $\triangle ABC + \triangle FDE + \triangle BGF + \triangle IHJ = 4$
$\triangle ABI + \triangle AIC + \triangle FEJ + \triangle JDE + \triangle BGH + \triangle GHF + \triangle BIH + \triangle HFJ = 8$
and $\triangle IHO + \triangle OHJ = 2$
$4 + 8 + 2 = 14$
So number of triangles is 14.

Type - 2

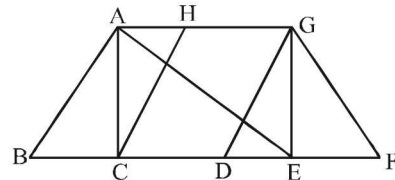**75.** Find the minimum number of the parallelograms in the given figure?

(a) 51   (b) 39
(c) 45   (d) 47

RPF SI 13.01.2019 Shift : I

Ans : (c) The minimum of parallelograms in the given figure is 45.
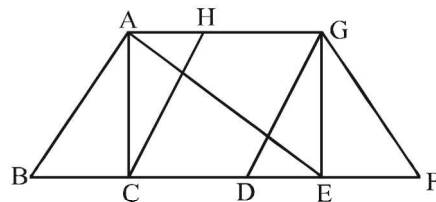
76. Select the option that represents the number of parallelograms in the given figure.

(a) 4   (b) 2
(c) 3   (d) 1
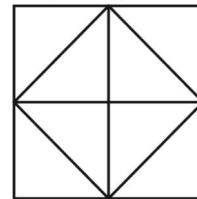
RRB ALP & Tec. (17-08-18 Shift-II)

Ans : (a)

Number of Parallelogram = 4 (ABCH, HCDG, ABDG, ACEG)
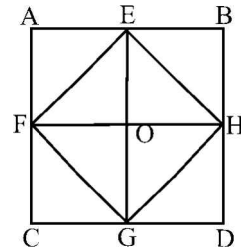
Type - 3

77. Calculate the pentagon in the following figure?

(a) 10   (b) 12
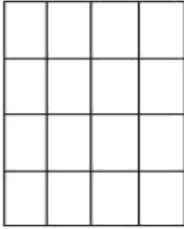(c) 8   (d) 4

RRB Group-D – 08/10/2018 (Shift-I)

Ans. (b) :

Pentagon formed in question figure = AFGHE, BEFGH, DHEFG, GGHEF, HEACG, EFCDH, FEBDG, GFABH, EHDCA, HGCAB, GFABD, FEBDC = 12
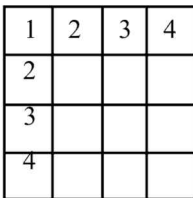
78.

How many rectangles are there in the above figure?

(a) 80   (b) 90

(c) 95   (d) 100
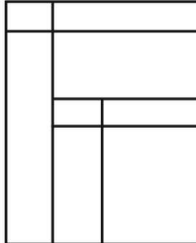
RRB Group-D – 23/10/2018 (Shift-II)

Ans. (d) :

$1 + 2 + 3 + 4 = 10$

So total rectangle $= 10 \times 10 = 100$
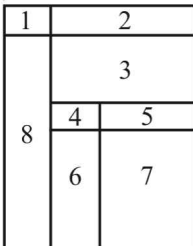
79. How many rectangle are there in the following figure?

(a) 19   (b) 24

(c) 20   (d) 21

RRB Group-D – 23/09/2018 (Shift-II)

Ans : (d)

Rectangle made of one digit = 8

Rectangle made of two digit = (1,2) (1,8) (2,3) (4,5) (4,6) (5,7) = 6

Rectangle made of three digit = (3,4,5) = 1

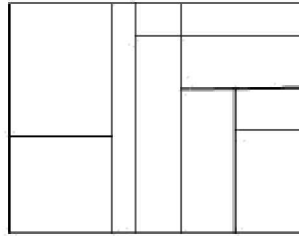Rectangle made of four digit = (4,5,6,7) (2,3,4,5) = 2

Rectangle made of five digit = (3,4,5,6,7) = 1

Rectangle made of six digit = (2,3,4,5,6,7) (3,4,5,6,7,8) = 2

Large rectangle made of eight digit = 1

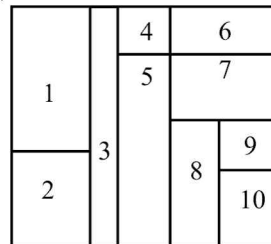Total rectangle $= 8 + 6 + 1 + 2 + 1 + 2 + 1 = 21$

80. How many rectangle are there in the following figure?

(a) 21   (b) 24

(c) 20   (d) 22

RRB Group-D – 18/09/2018 (Shift-I)

Ans. (b) :

$\Rightarrow$ Number of rectangles made of one-one digit = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 = 10

$\Rightarrow$ Number of rectangles made of two-two digits = (1,2), (4,5), (4,6), (6,7), (9,10) = 5

$\Rightarrow$ Number of rectangles made of three-three digit = (1 2 3), (3 4 5), (8 9 10) = 3

$\Rightarrow$ Number of rectangles made of five-five digits = (1, 2, 3, 4, 5), (6, 7, 8, 9, 10), (5, 7, 8, 9, 10) = 3

$\Rightarrow$ Number of rectangles made of seven-seven digits = (4, 5, 6, 7, 8, 9, 10) = 1
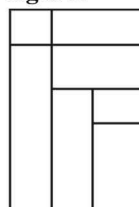
$\Rightarrow$ Number of rectangles made of eight-eight digits = (3, 4, 5, 6, 7, 8, 9, 10) = 1

$\Rightarrow$ Number of rectangles made of ten digits = 1
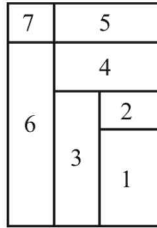
Total number of rectangles
$= 10 + 5 + 3 + 3 + 1 + 1 + 1 = 24$

81. How many rectangle are there in the following figure?
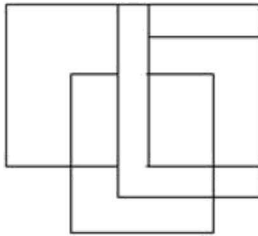
(a) 21   (b) 15
(c) 16   (d) 17

Ans. (c) :

One digit rectangle = 7

Two digit rectangle = (7, 6) (7, 5) (4, 5) (2, 1) = 4

Three digit rectangle = (1,2,3) = 1

Four digit rectangle = (4, 3, 2, 1) = 1

Five digit rectangle = (5, 4, 3, 2, 1) (6, 4, 3, 2, 1) = 2

Rectangle made of all the digits = 1

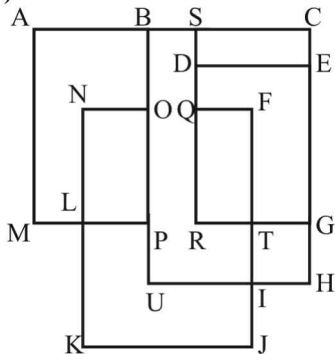So the total number of rectangles
$$= 7 + 4 + 1 + 1 + 1 + 2 = 16$$

82. How many closed rectangular boxes are there in the figure?
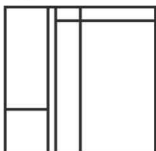

(a) 5   (b) 6
(c) 8   (d) 7

Ans : (c)

ABMP + NOLP + SCDE + QFRT + TGIH + BCUH + SCRG + DERG = 8

83. How many rectangle are there in the following figure?


(a) 10   (b) 20
(c) 18   (d) 15

Ans. (c) :
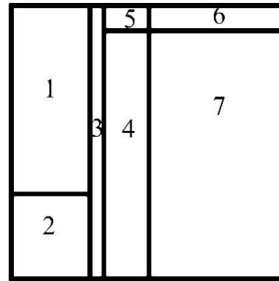
Number of rectangles on taking one digit = 7

Number of rectangles on taking two digit = 5

Number of rectangles on taking three digit = 2

Number of rectangles on taking four digit = 1

Number of rectangles on taking five digit = 2

Number of rectangles on taking all digits = 1

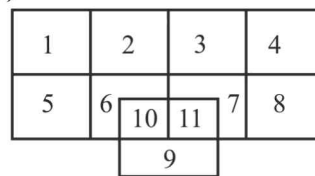Total number of rectangles = 7 + 5 + 2 + 1 + 2 +1 = 18

Type - 3

84. Find the number of squares in the following figure?
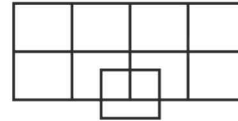
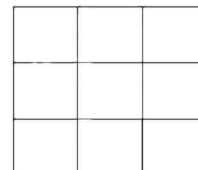(a) 14   (b) 13
(c) 12   (d) 15

Ans : (a)

Number of one digit squares in the figure = 10

(Figure 9 is a rectangle)

Three digit square = (9, 10, 11) = 1

Four digit square = (1, 2, 5, 6), (2, 3, 6, 7), (3, 4, 7, 8)
$$= 3$$

Number of total squares = 10 + 1 + 3 = 14
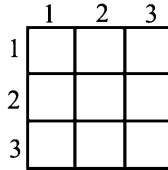
85. Find the number of squares in the following figure?

(a) 9   (b) 16
(c) 14   (d) 27

RRB Group-D – 25/10/2018 (Shift-II)
RRB Group-D – 12/11/2018 (Shift-II)

Ans : (c)

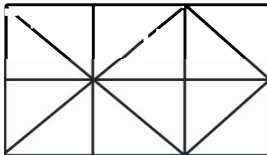

Rule of square = Row × Column

$3 \times 3 = 9$

$2 \times 2 = 4$

$\underline{1 \times 1 = 1}$
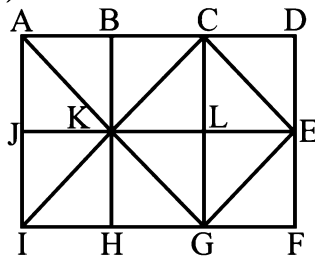
Total number of square = 14

86. Find the number of squares in the following figure?
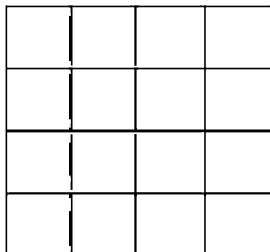

(a) 9   (b) 12
(c) 8   (d) 10

RRB Group-D – 31/10/2018 (Shift-III)

Ans : (a)

Number of square = ABJK + JKIH + BCKL + KLHG + CDLE + LEGF + ACIG + BDHF + KCEG = 9

87.

Number of squares in the above figure are...

(a) 36   (b) 16
(c) 30   (d) 40

RRB Group-D – 24/10/2018 (Shift-III)
RRB Group-D – 07/12/2018 (Shift-III)

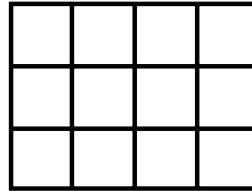**Ans. (c) :** When rows and columns are equal, they are squared and added.

$(4)^2 = 16$

$(3)^2 = 9$

$(2)^2 = 4$

$(1)^2 = 1$

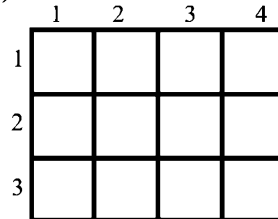Total number of squares $= 16 + 9 + 4 + 1 = 30$

88.

How many squares are there in the above figure?

(a) 18   (b) 20
(c) 25   (d) 22

RPF SI 13.01.2019 Shift : III

Ans. (b)

Number of square above (column) = 4
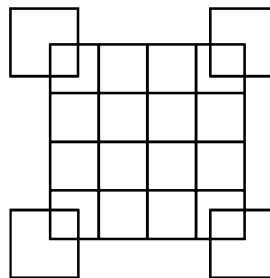
Number of square in the bottom (row) = 3

Number of square = 4 × 3 = 12

            = 3 × 2 = 6

            = 2 × 1 = 2

So total number of square = 12 + 6 + 2 = 20

89. Count the number of squares in the figure:

(a) 40   (b) 36
(c) 42   (d) 38

RRB Group-D – 15/10/2018 (Shift-II)

Ans : (d) Number of squares in the figure

      $\Rightarrow 4 \times 4 = 16$
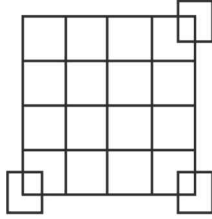
      $\Rightarrow 3 \times 3 = 9$

      $\Rightarrow 2 \times 2 = 4$

      $\Rightarrow 1 \times 1 = 1$

      $\Rightarrow 2 \times 4 = 8$

So total number of squares = 38
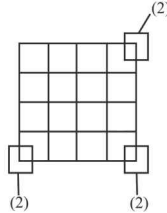
90. Count the number of squares in the figure:

(a) 38   (b) 35
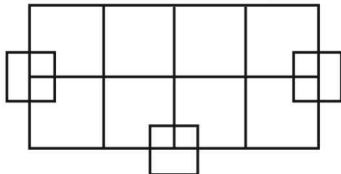(c) 37   (d) 36

RRB Group-D – 15/10/2018 (Shift-III)

Ans. (d) :

Number of square $= 4 \times 4 + 3 \times 3 + 2 \times 2 + 1 + 6$
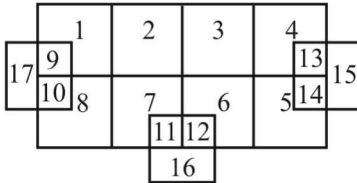$= 16 + 9 + 4 + 1 + 6$
$= 36$

91. Count the number of squares in the figure:

(a) 20   (b) 21
(c) 19   (d) 18

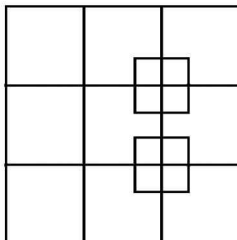**RPF Constable 24.01.2019 Shift : III**

Ans. (a) :

Number of squares made of one digit = 14
Number of squares made of three digit =(9,10,17), (13,14,15), (11,12,16)= 3
Number of squares made of four digit = (1,2,8,7), (2,3,7,6), (3,4,6,5) = 3
So total number of square = 14 + 3 + 3 = 20
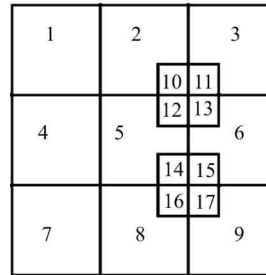
92. Count the number of squares in the figure:

(a) 22   (b) 20
(c) 26   (d) 24

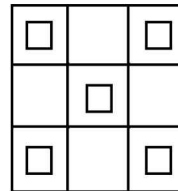**RRB Group-D – 11/10/2018 (Shift-I)**

Ans : (d)

Number of one digit squares = 17

Number of four digit squares = (10,11,12,13) (14,15,16,17) (1,2,4,5) (2,3,5,6) (4,5,7,8) (5,6,8,9) = 6

Large square = 1

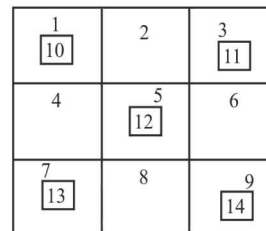So total number of squares = 17 + 6 + 1 = 24

93. Count the number of squares in the figure:

(a) 20   (b) 18
(c) 17   (d) 19

RRB Group-D – 08/10/2018 (Shift-III)

Ans : (d)

The square formed by one digit
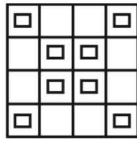= 2, 4, 6, 8, 10, 11, 12, 13, 14 = 9

The square formed by two digit
= (1, 10), (3, 11), (5, 12), (7, 13), (9, 14) = 5

The square formed by six digit = (1, 10, 2, 4, 5, 12), (2, 3, 11, 5, 12, 6), (4, 5, 12, 8, 7, 13), (5, 12, 6, 8, 9, 14) = 4

square formed with all digits = 1

So total number of square in the question figure
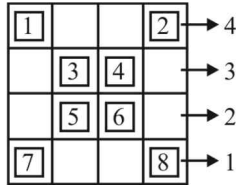= 9 + 5 + 4 + 1 = 19

94. Find the number of squares in the following figure?

(a) 36 (b) 40
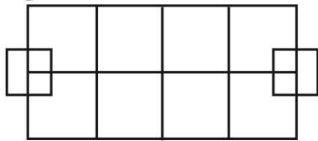(c) 42 (d) 38

Ans. (d) :

$(4)^2 = 16$

$(3)^2 = 9$

$(2)^2 = 4$

$(1)^2 = 1$

Number of numbered squares = 8

Total number of squares = 16 + 9 + 4 + 1 + 8 = 38

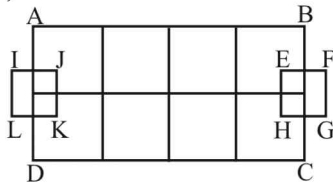**Note-** When rows and columns are equal, then number of squared added.

95. Find the number of squares in the following figure?
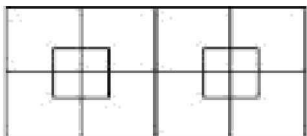

(a) 15 (b) 18
(c) 17 (d) 16

Ans : (c)

Number of squares in rectangle ABCD = 11

Number of squares in rectangle EFGH = 3

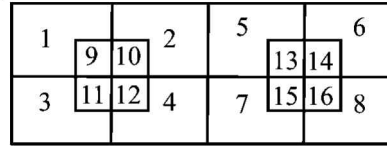Number of squares in rectangle IJKL = 3

Number of total square =11+3+3= 17

96. Find the number of squares in the following figure?
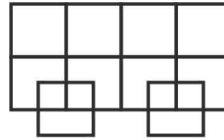

(a) 23 (b) 21
(c) 22 (d) 20

Ans. (b) :

Number of square made up of one digit = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 = 16

Number of square made up of four digit = (1, 2, 3, 4), (5, 6, 7, 8), (2, 5, 4, 7), (9, 10, 11, 12),(13, 14, 15, 16) = 5
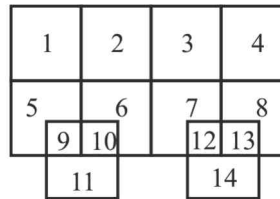
Number of total squares = 16 + 5 = 21

97. Find the number of squares in the following figure?

(a) 18 (b) 16
(c) 17 (d) 19

Ans : (c)

Number of squares made with one digit
= 1, 2, 3, 4, 9, 10, 12, 13 = 8

Number of squares made with three digit
= (9, 10, 11) (12, 13, 14) = 2

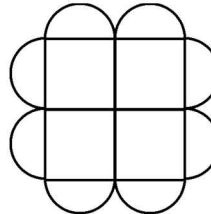Number of squares made with four digit
= (1, 2, 5, 6) (2, 3, 6, 7) (3, 7, 4, 8) = 3

Number of squares made with two digit
= (5, 9) (6, 10) (7, 12) (8, 13) = 4
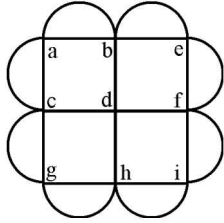
So the total number of squares = 17

98. Count the number of squares in the figure:
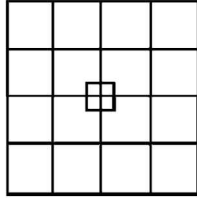

(a) 4 (b) 5
(c) 6 (d) 7

Ans : (b)

Number of squares = abcd, bedf, cdgh, dfhi, aegi
So the number of squares in the given figure is 5.
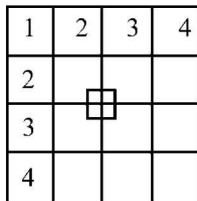
99. Count the number of squares in the figure:

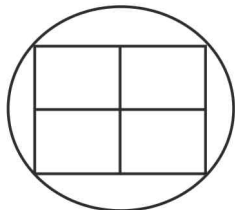
(a) 35   (b) 36
(c) 38   (d) 37

RRB Group-D – 16/10/2018 (Shift-I)

Ans. (a) :

Number of squares =
$\Rightarrow 4 \times 4 + 3 \times 3 + 2 \times 2 + 1 + 5$
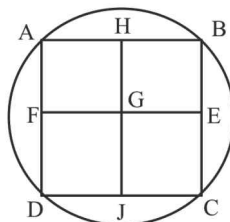$\Rightarrow 16 + 9 + 4 + 1 + 5$
$\Rightarrow 35$

100. Count the number of squares in the figure:
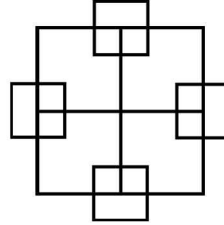

(a) 4   (b) 5
(c) 6   (d) 3

RPF Constable 24.01.2019 Shift : I

Ans. (b) :

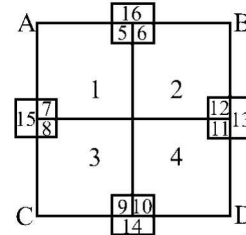Total number of squares in the given figure = AFGH, HGEB, GJCE, FDJG and ABCD = 5

101. Count the number of squares in the figure:
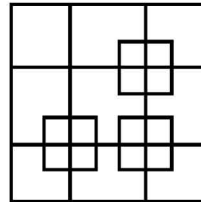

(a) 17   (b) 19
(c) 21   (d) 15

RRB Group-D – 22/10/2018 (Shift-I)

Ans : (a)

Number of squares made up of one digit = 12
Number of squares made up of three digit = (5,6,16), (7,8,15), (9,10,14), (11,12,13) = 4
Squares ABCD = 1
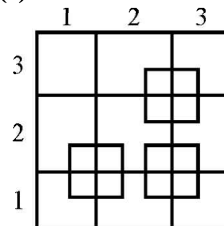So total squares total = 12 + 4 + 1 = 17

102. Count the number of squares in the figure:

(a) 27   (b) 32
(c) 29   (d) 28

RRB Group-D – 22/10/2018 (Shift-III)

Ans : (c)

Regarding finding the number of square, do this with rows and columns as to follows.

$3 \times 3 = 9$
$2 \times 2 = 4$
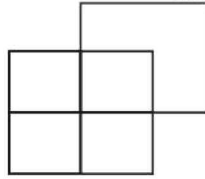$1 \times 1 = 1$
$= 9 + 4 + 1 = 14$

$2 \times 2 = 4$

$1 \times 1 = 1$

$= 4 + 1 = 5$

In small squares $= 3 \times 5 = 15$

Total number of squares $= 14 + 15 = 29$

103. Count the number of squares in the figure:

(a) 8   (b) 6

(c) 7   (d) 25

RRB Group-D – 06/12/2018 (Shift-II)

Ans. (b) :

Number of square in the following figure −

AHEI, HBIF, EIDG, IFGC, ABCD, LKIJ

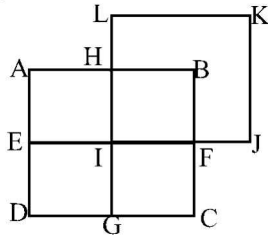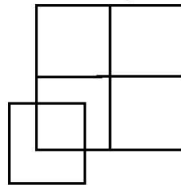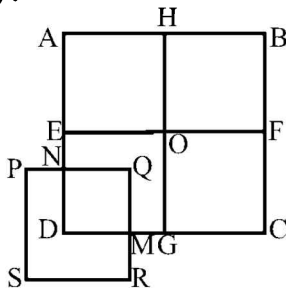Total of 6 square in the figure.

104. Count the number of squares in the figure:

(a) 8   (b) 6

(c) 7   (d) 5

RRB Group-D – 06/12/2018 (Shift-III)
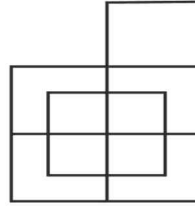
Ans. (c) :

Number of square in given figure ABCD = ABCD + AHOE + HBFO + FCGO + GDEO

$= 1 + 1 + 1 + 1 + 1 = 5$

Number of square in given figure PQRS = PQRS + NQMD

$= 1 + 1 = 2$

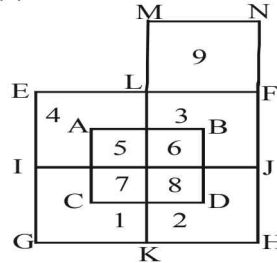So total number of squares $= 5 + 2 = 7$

105. Count the number of squares in the figure:

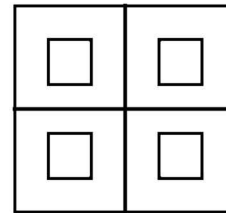

(a) 14   (b) 11

(c) 10   (d) 12

RRB Group-D – 05/12/2018 (Shift-I)

Ans : (b)

Number of square made up of one digit = 9

Number of square made up of four digit = 2

So total number of squares $= 9+2 = 11$
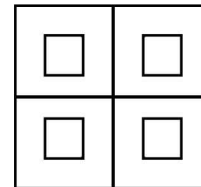
106. Count the number of squares in the figure:

(a) 9   (b) 10

(c) 8   (d) 7

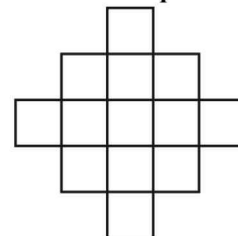**RRB Group-D – 04/12/2018 (Shift-III)**

Ans. (a)

Number of squares = 4 large square + 4 small square + 1 large square
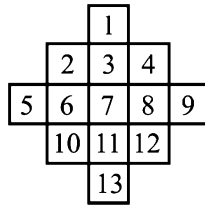
$= 4 + 4 + 1$

$= 9$

107. Count the number of squares in the figure:
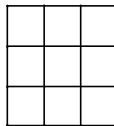
(a) 10   (b) 18
(c) 15   (d) 16

RRB JE - 29/05/2019 (Shift-I)

Ans : (b)

Number of squares made up of one digit = 13
Number of squares made up of four digit = (2, 3, 6, 7) (3, 4, 7, 8) (6, 7, 10, 11) (7, 8, 11, 12) = 4
Number of squares made up of nine digit = (2, 3, 4, 6, 7, 8, 10, 11, 12) = 1
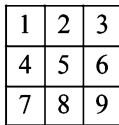So total number of squares = 13 + 4 + 1 = 18

108. Count the number of squares in the figure:
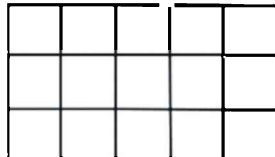

(a) 11   (b) 14
(c) 12   (d) 10

RRB JE - 25/05/2019 (Shift-I)

Ans : (b)

1	2	3
4	5	6
7	8	9

Number of 1 digit squares = 9

Number of 4 digit squares = (1, 2, 4, 5), (4, 5, 7, 8), (2, 3, 5, 6), (5, 6, 8, 9) = 4

Number of 9 digit squares = 1
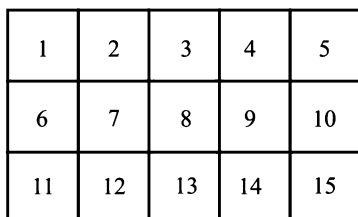
So total number of squares = 9 + 4 + 1 = 14

109. Count the number of squares in the figure:

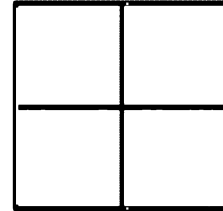(a) 21   (b) 12
(c) 18   (d) 26

RRB JE - 23/05/2019 (Shift-I)

Ans : (d)

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Number of squares made up of one digit = 15
Number of squares made up of four digits = (1, 2, 6, 7), (2,7,3,8), (3, 4, 8,9) (4, 9, 5, 10) (6, 7, 11, 12), (7, 12, 8, 13), (8, 13, 9, 14) (9, 14, 10, 15) = 8
Number of squares made up of nine digits = 3
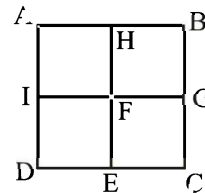Total number of squares = 15 + 8 + 3 = 26

110. What is the number of squares in the following figure?
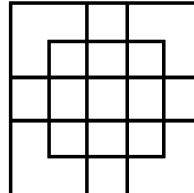

(a) 9   (b) 3
(c) 5   (d) 7

RRB JE - 26/05/2019 (Shift-II)
RRB ALP & Tec. (17-08-18 Shift-III)

Ans : (c)

Number of squares in given figure = AHFI, HBGF, FGCE, IFED, ABCD
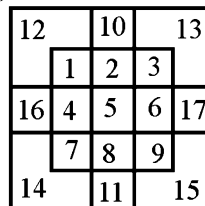So number of squares = 5

111. Count the number of squares in the figure:

(a) 18   (b) 25
(c) 27   (d) 19

RPF SI 05.01.2019 Shift : I

Ans. (c)

Square formed by one digit = 13
Square formed by two digits
     = (1,12) (3, 13) (9,15) (7, 14) = 4
Square formed by four digits
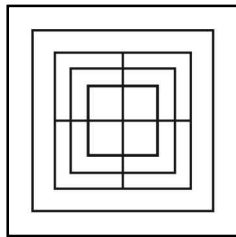   = (1, 2, 4, 5) (2, 3, 5, 6) (4, 5, 7, 8) (5, 6, 8, 9) = 4

Square formed by seven digits = (10, 2, 5, 1, 4, 12, 16) (16, 4, 5, 7, 8, 14, 11) (10, 2, 5, 3, 6, 13, 17) (5, 6, 17, 8, 9, 11, 15) = 4

Square formed by nine digits
= (1, 2, 3, 4, 5, 6, 7, 8, 9) = 1

Square formed by completing all digit = 1

So total number of squares = 13 + 4 + 4 + 4 +1 +1 = 27

112. Select the option that represents the number of squares in the given figure.
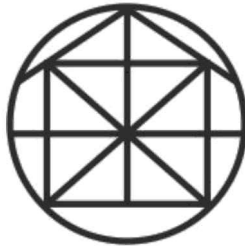

(a) 17   (b) 15
(c) 14   (d) 13

RRB ALP & Tec. (31-08-18 Shift-II)

Ans. (a) : The total number of square is in the figure question is 17.

113. Select the option that represents the number of squares in the given figure.
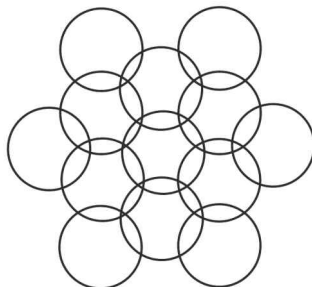

(a) 4   (b) 6
(c) 5   (d) 7

RRB ALP & Tec. (31-08-18 Shift-III)

Ans : (c) In the given figure there are 5 squares.

Type - 6
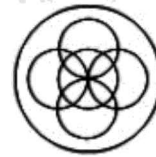
114. What is the number of circle in the following figure?

(a) 12   (b) 14
(c) 13   (d) 11

RRB Group-D – 11/12/2018 (Shift-III)

Ans : (c) The total number of circles in the given picture figure is 13.

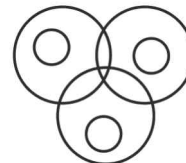**115. What is the number of circle in the following figure?**

(a) 8   (b) 5
(c) 6   (d) 7

RRB Group-D – 12/10/2018 (Shift-I)
RRB Group-D – 12/10/2018 (Shift-II)

Ans. (c) : Total number of circles in the questions figure 5 small circles +1 large circle = 6
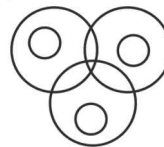
116. What is the number of circle in the following figure?
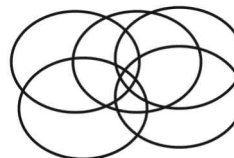

(a) 7   (b) 6
(c) 8   (d) 5

RRB Group-D – 10/10/2018 (Shift-II)

Ans : (b)

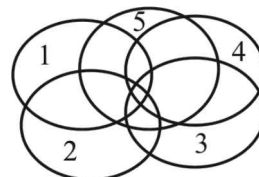Number of circles in the given figure = 6

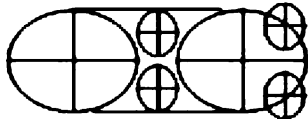**117. What is the number of circle in the following figure?**

(a) 4   (b) 8
(c) 6   (d) 5

RRB Group-D – 03/12/2018 (Shift-II)

Ans : (d) The total number of circles in the given figure is five.

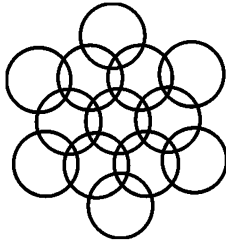**118.** What is the number of sector in the following figure?

(a) 16   (b) 32
(c) 20   (d) 24

RRB Group-D – 26/11/2018 (Shift-III)

Ans : **(d)** It is clear from the given figure that it has 6×4=24 sector.
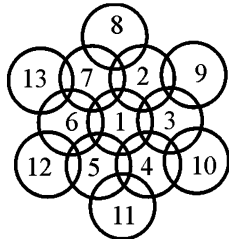
119. What is the number of circle in the following figure?

(a) 11   (b) 14
(c) 12   (d) 13
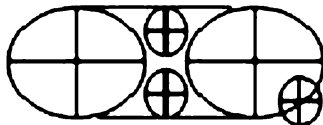
RRB JE - 26/06/2019 (Shift-I)

Ans. (d)

So there 13 circles in the figure.

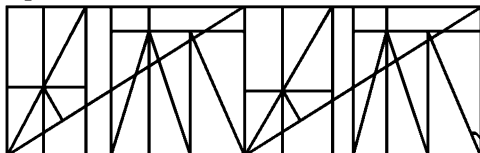**120.** What is the number of circular segment in the following figure?

(a) 24   (b) 16
(c) 32   (d) 20

RRB Group-D – 19/09/2018 (Shift-I)

Ans : (d) There are 20 circular segments in the figure.

Type - 7

121. How many rows are used to make the following figure?
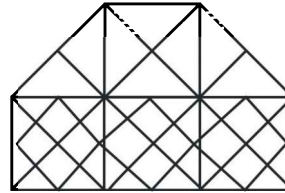

(a) 55   (b) 31
(c) 36   (d) 28

RRB Group-D – 11/12/2018 (Shift-II)

Ans : (b) The total number of rows in the given figure is 31.

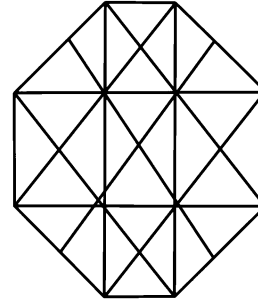**122.** How many rows are used to make the following figure?

(a) 20   (b) 23
(c) 26   (d) 28

RPF Constable 25.01.2019 Shift : I

Ans : (b) The above given figure uses 23 rows.

123. The minimum number of straight lines required to construct the given figure is ......
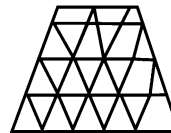

(a) 18   (b) 16
(c) 13   (d) 20

RRB Group-D – 28/09/2018 (Shift-II)

Ans. (a) : A minimum of 18 lines will be required/need to make the given figure.

124. The minimum number of straight lines required to construct the given figure is ......
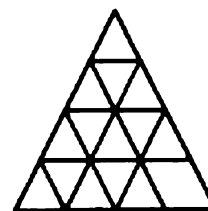

(a) 17   (b) 15
(c) 10   (d) 12

RRB Group-D – 10/10/2018 (Shift-II)

Ans : (b) To make the given figure 15 lines will be required/need.
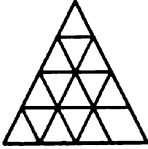
125.

The minimum number of straight lines required to construct the given figure is ......
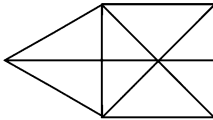(a) 10   (b) 9
(c) 11   (d) 12

RPF SI 05.01.2019 Shift : II

Ans : (c)

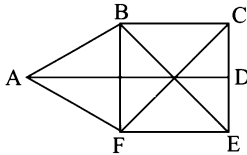A minimum of 11 straight lines would be required to make the above figure.

126.

The minimum number of straight lines required to construct the given figure is ......
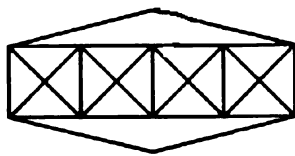(a) 8   (b) 11
(c) 10   (d) 9

RRB Group-D – 26/10/2018 (Shift-III)

Ans : (d)

Total number of lines to the figure = AB, BC, CE, EF, BE, CF, AF, AD, FB
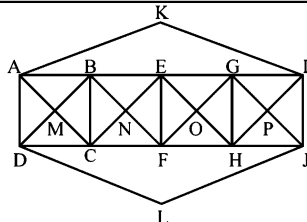So number of lines = 9

127. Find the number of triangles and vertical lines in the given figure.

(a) 36 triangle and 7 vertical lines
(b) 40 triangle and 5 vertical lines
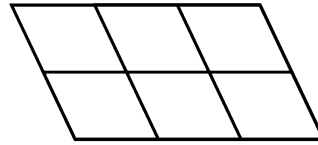(c) 42 triangle and 9 vertical lines
(d) 38 triangle and 9 vertical lines

RRB Group-D – 01/12/2018 (Shift-II)

Ans : (b)

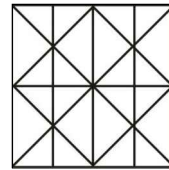The given figure is made up of 40 triangles and 5 vertical lines.

128.

The minimum number of straight lines required to construct the given figure is ......
(a) 6   (b) 7
(c) 10   (d) 5

RRB Group-D – 12/11/2018 (Shift-III)

Ans : (b) To make the given figure, 4 vertical and 3 horizontal line so total lines will be required to 7.

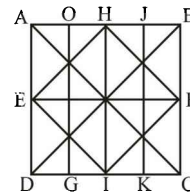**129. How many straight lines are there in the given figure?**

(a) 19   (b) 16
(c) 23   (d) 14

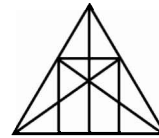**RRB JE - 27/05/2019 (Shift-II)**

Ans : (d)
The total number of straight lines in the given figure will be 14.
Which figures−

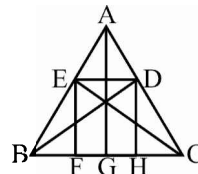Straight lines − AB, BC, CD, DA, EF, OG, HI, JK, DB, AC, EH, HF, FI, EI = 14

130. How many straight lines are there in the given figure?
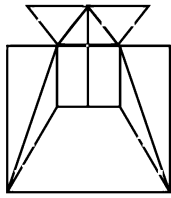

(a) 9   (b) 10
(c) 15   (d) 13

RPF SI 19.12.2018 Shift : I

Ans : (a)

Straight lines in the given figure-
AB, BC, CA, EF, ED, DH, AG, BD, CE
So there are 9 straight lines in the figure.

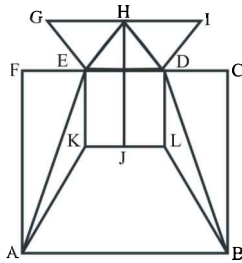**131. How many straight lines are there in the given figure?**

(a) 8   (b) 12

(c) 21   (d) 17

RRB JE - 01/06/2019 (Shift-III)

RRB ALP & Tec. (29-08-18 Shift-I)
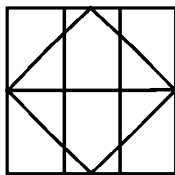
Ans. (d)

Lines in the given figure -

AB, BC, CF, FA, AK, BL, KL, LD, EK, GE, ID, GI, HE, HD, EA, DB, HJ
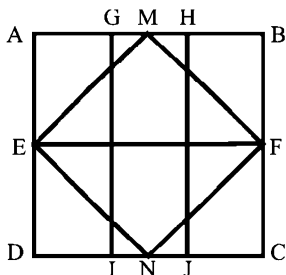
So there are 17 straight lines in the figure.

132. The minimum number of straight lines required to construct the given figure is ……

(a) 10   (b) 11

(c) 13   (d) 12

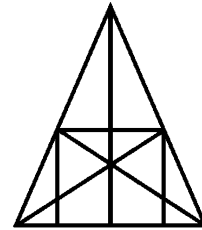**RRB Group-D – 06/12/2018 (Shift-III)**

Ans. (b) :

Minimum number of straight lines need to draw a figure

= AD + BC + AB + CD + GI + HJ + EM + MF + FN + NE + EF = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 = 11

**133. What is the number of oblique lines and triangles in the given figure?**

(a) 5 oblique lines and 34 triangle

(b) 5 oblique lines and 36 triangle

(c) 4 oblique lines and 36 triangle

(d) 4 oblique lines and 34 triangle

RRB Group-D – 12/12/2018 (Shift-I)

Ans. (c) Number of oblique lines = 4 and number of triangles = 36 in the given figure.
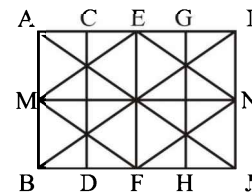
134. The minimum number of straight lines required to construct the given figure is ……
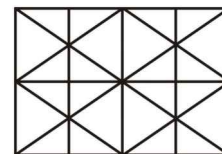
(a) 14   (b) 12

(c) 15   (d) 13

RRB ALP & Tec. (20-08-18 Shift-II)

Ans : (a)

Minimum number of straight lines = 14 (AB, CD, EF, GH, IJ, AI, MN, BJ, ME, BI, FN, EN, AJ, MF)