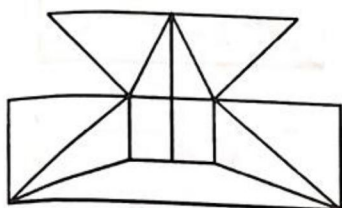


Directions (Q No - 1 to 4) : In each of the following questions, find the minimum number of straight lines required to make the given figure.

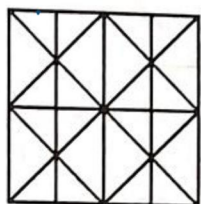
1.



- a) 16
c) 18

- b) 17
d) 19

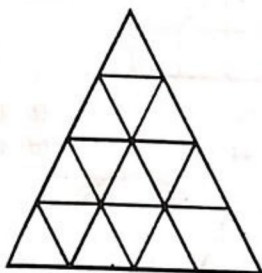
2.



- a) 11
c) 16

- b) 14
d) 17

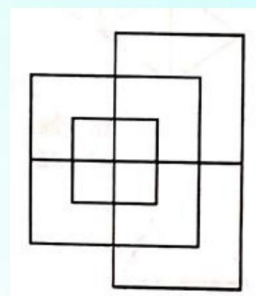
3.



- a) 9
c) 15

- b) 11
d) 16

4.



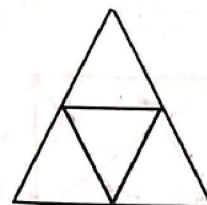
- a) 13
c) 17

- b) 15
d) 19

Directions (Q No – 5 to 29) : In each of the following questions, find the number of triangles in the given figure.

5.

(RRB 2003)



- a) 4
c) 6

- b) 5
d) 7

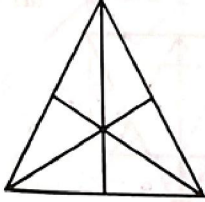
6.



- a) 5
c) 8

- b) 6
d) 10

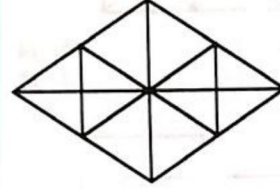
7.



- a) 16
c) 9

- b) 13
d) 7

11.

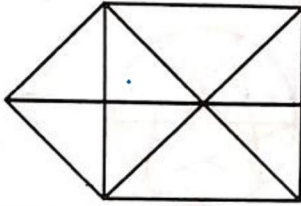


- a) 16
c) 28

- b) 22
d) 32

(AAO 2005)

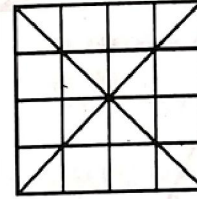
8.



- a) 15
c) 17

- b) 16
d) 18

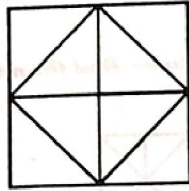
12.



- a) 36
c) 44

- b) 40
d) 48

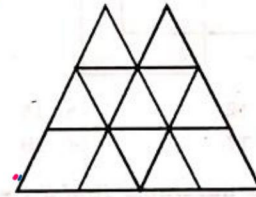
9.



- a) 8
c) 12

- b) 10
d) 14

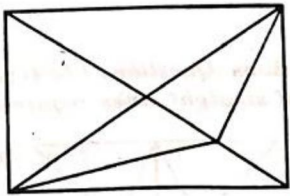
13.



- a) 16
c) 14

- b) 18
d) 15

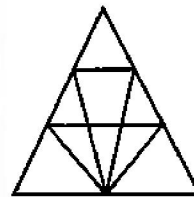
10.



- a) 11
c) 15

- b) 13
d) 16

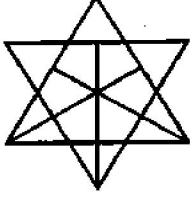
14.



- a) 12
c) 22

- b) 18
d) 26

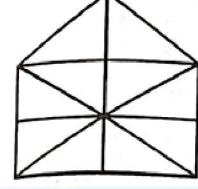
15.



- a) 21
c) 25

- b) 23
d) 27

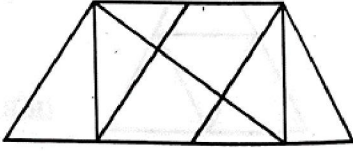
- a) 10
c) 21



- b) 19
d) 23

16.

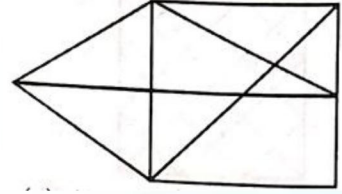
(MBA 2005)



- a) 8
c) 12

- b) 10
d) 14

- a) 12
c) 14



- b) 13
d) 15

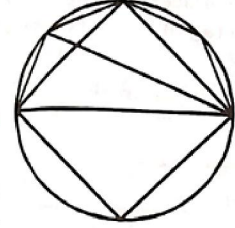
17.



- a) 22
c) 26

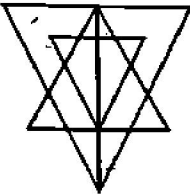
- b) 24
d) 28

- a) 8
c) 11



- b) 10
d) 12

18.

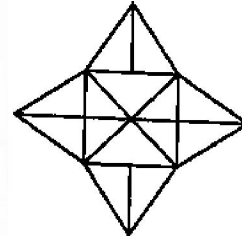


- a) 27
c) 23

- b) 25
d) 21

22.

(SSC 2004)



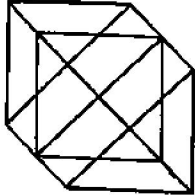
- a) 18
c) 28

- b) 20
d) 34

19.

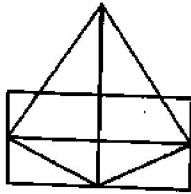
(RRB 2004)

23.



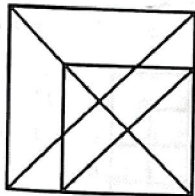
- a) 18
b) 20
c) 24
d) 27

24.



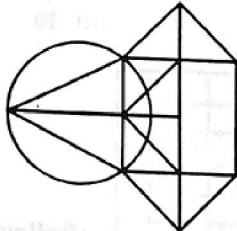
- a) 11
b) 13
c) 15
d) 17

25.



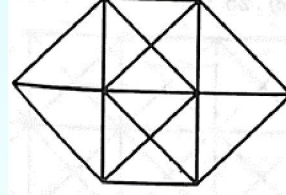
- a) 16
b) 18
c) 19
d) 21

26. (SSC 2002)



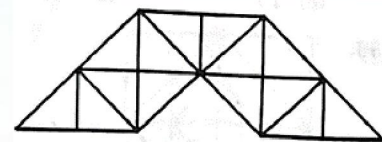
- a) 10
b) 12
c) 14
d) 16

27.



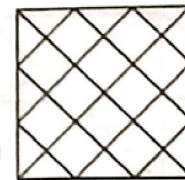
- a) 20
b) 24
c) 28
d) 32

28. (LIC AAO 2005)



- a) 23
b) 27
c) 29
d) 31

29.

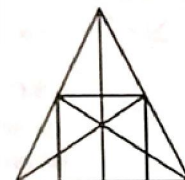


- a) 28
b) 32
c) 36
d) 40

30. What is the number of triangles that can be formed whose vertices are the vertices of an octagon but have only one side common with that of the octagon? (U.P.S.C. 2004)

- (a) 64
(b) 32
(c) 24
(d) 16

31. What is the number of straight lines and the number of triangles in the given figure?

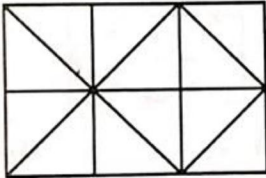


- (a) 10 straight lines and 34 triangles

- (b) 9 straight lines and 34 triangles
(c) 9 straight lines and 36 triangles
(d) 10 straight lines and 36 triangles

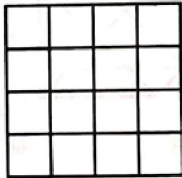
Directions (Questions 32 to 39) : In each of the following questions, count the number of squares in the given figure.

32.



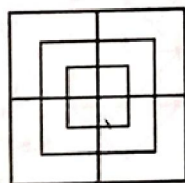
- a) 6
b) 7
c) 9
d) 10

33.



- a) 32
b) 30
c) 29
d) 28

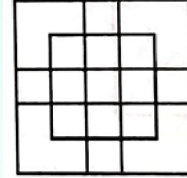
34.



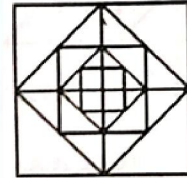
- a) 8
b) 12
c) 15
d) 18

35.

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

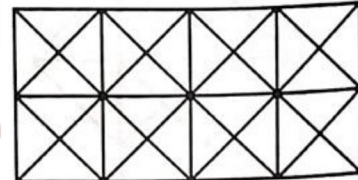


36.



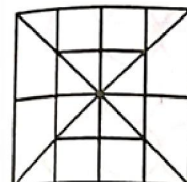
- a) 12
b) 13
c) 16
d) 17

37.



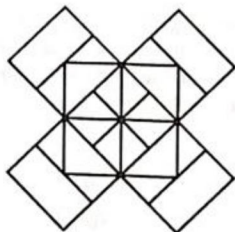
- a) 11
b) 21
c) 24
d) 26

38.



- a) 13
b) 16
c) 19
d) 20

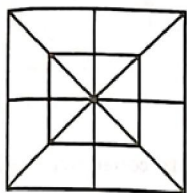
39.



- a) 22
c) 18
b) 20
d) 14

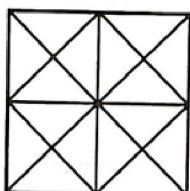
Directions (Questions 40 to 45) : In each of the following questions, count the number of triangles and squares in the given figure.

40.



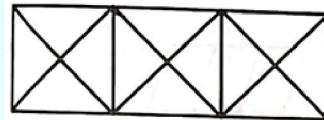
- a) 28 triangles, 10 squares
b) 28 triangles, 8 squares
c) 32 triangles, 10 squares
d) 32 triangles, 8 squares

41.



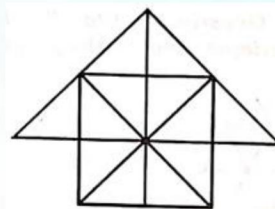
- a) 44 triangles, 10 squares
b) 14 triangles, 16 squares
c) 27 triangles, 6 squares
d) 36 triangles, 9 squares

42.



- a) 28 triangles, 3 squares
b) 24 triangles, 5 squares
c) 28 triangles, 5 squares
d) 24 triangles, 3 squares

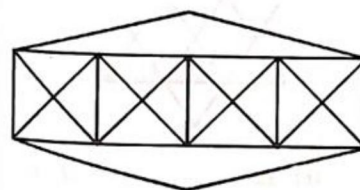
43.



- a) 26 triangles, 5 squares
b) 28 triangles, 5 squares
c) 26 triangles, 6 squares
d) 28 triangles, 6 squares

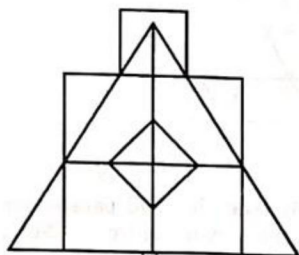
44.

(SSC 2004)



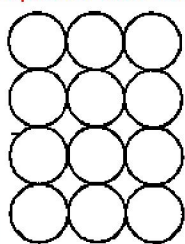
- a) 36 triangles, 7 squares
b) 38 triangles, 9 squares
c) 40 triangles, 7 squares
d) 42 triangles, 9 squares

45.



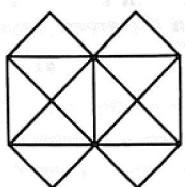
- a) 21 triangles, 7 squares
b) 18 triangles, 8 squares
c) 20 triangles, 8 squares
d) 22 triangles, 7 squares

46. In the adjoining figure, if the centers of all the circles are joined by horizontal and vertical lines, then find the number of squares that can be formed.



- (a) 6
(c) 8
(b) 7
(d) 1

Directions (Questions 47 to 49) : Study the following figure and answer the given questions based on this figure.



47. What is the minimum number of straight lines that is needed to construct the figure?

- (a) 11
(c) 15
(b) 13
(d) 21

48. Count the number of triangles in the figure.

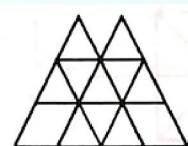
- (a) 12
(c) 22
(b) 20
(d) 24

49. How many squares does the figure contain?

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

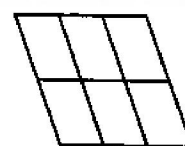
Directions (Questions 50 to 53) : In each of the following questions, count the number of parallelograms in the given figures.

50.



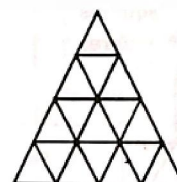
- a) 23
(c) 21
b) 22
d) 18

51.



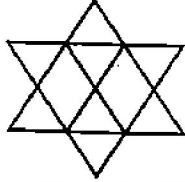
- a) 20
(c) 16
b) 18
d) 12

52.



- a) 47
(c) 41
b) 45
d) 39

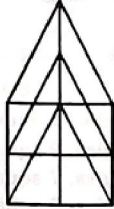
53.



- a) 8
c) 12

- b) 11
d) 15

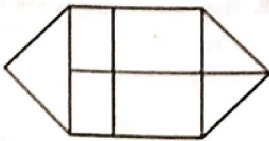
54. How many triangles and Parallelograms are there in the following figure? (MBA 2006)



- a) 21, 17
c) 21, 15

- b) 19, 13
d) 19, 17

55. How many rectangles are there in the following figure? (SSC 2004)

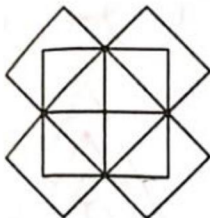


- a) 10
c) 8

- b) 9
d) 7

Directions (Q No – 56 and 57) : In each of the following questions, count the number of rectangles in the given figure.

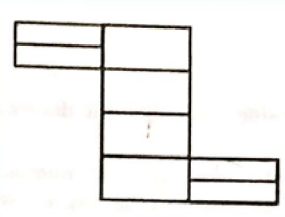
56.



- a) 20
c) 16

- b) 18
d) 15

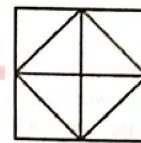
57.



- a) 8
c) 18

- b) 17
d) 20

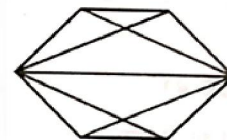
58. Count the number of pentagons in the adjoining figure.



- a) 16
c) 8

- b) 12
d) 4

Directions (Questions 59 - 60) : Analyze the following figure and answer the given questions based on this figure.



59. Find the number of quadrilaterals in the given figure.

- (a) 6
(c) 9

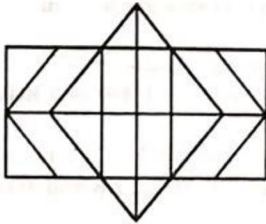
- (b) 7
(d) 11

60. What is the number of pentagons in the given figure?

(a) 2
(c) 4

(b) 3
(d) 6

61. Determine the number of rectangles and hexagons in the following figure.

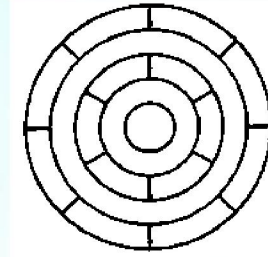


(a) 30, 5
(c) 28, 5

(b) 32, 3
(d) 30, 3

64. Consider the adjoining diagram:

(U.P.S.C. 2005)

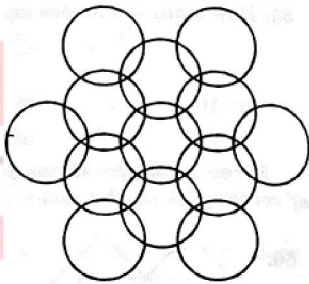


What is the minimum number of different colours required to paint the figure given above such that no two adjacent regions have the same colour?

(a) 3
(c) 5

(b) 4
(d) 6

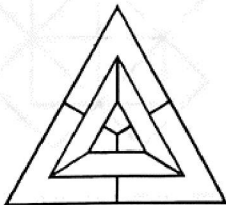
62. How many circles are there in the adjoining figure?



(a) 11
(c) 13

(b) 12
(d) 14

63. Consider the adjoining diagram :



What is the minimum number of colours required to fill the spaces in the diagram without any two adjacent spaces having the same colour?

(a) 6
(c) 4

(b) 5
(d) 3