

MAT

(GENERAL MENTAL ABILITY TEST)

Q. 1 and 2 → Directions: - Write which number in the given sequence replaces the question mark (?)

1. 21, 24, 30, 33, 39, 51, 57, ?

(1) 60

(2) 63

(3) 69

(4) 71

2. 197, 1 171, 147, 125, 105, ?

(1) 71

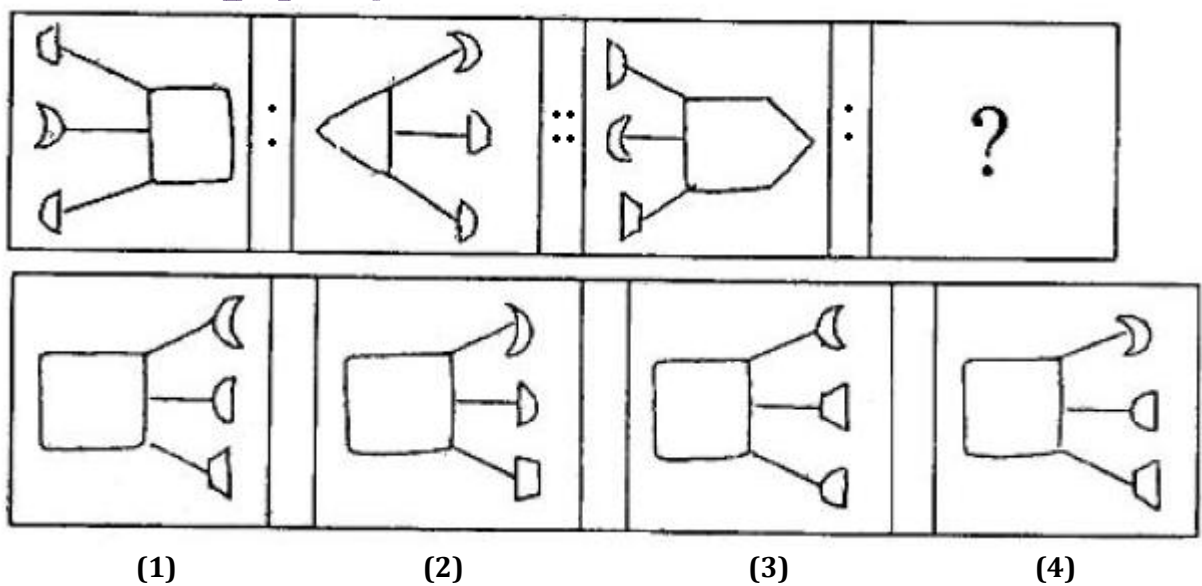
(2) 87

(3) 97

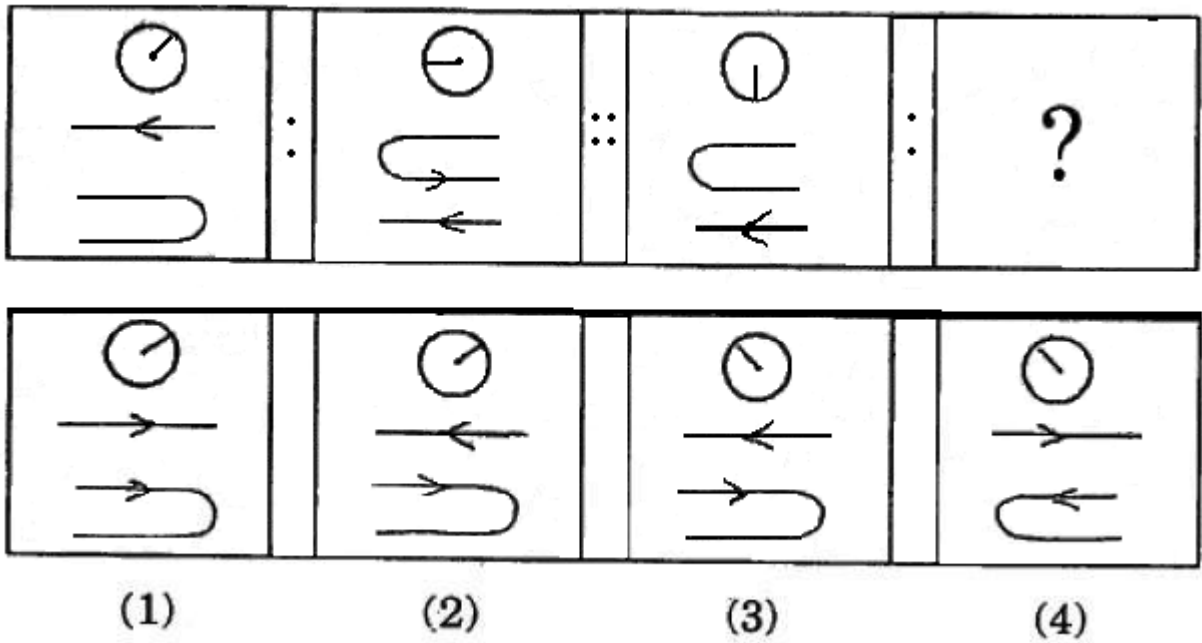
(4) 101

Q. 3 and 4. → Directions:- In the following questions there is a specific relationship between the first and the second term. The same relationship exists between the third and fourth term, which will replace the question mark (?). Select the correct term from the alternatives given.

3.



4.



Q. 5 to 8 → Directions: - Find the odd term out

5. (1) AE48

(2) GK36

(3) RV24

(4) DI41

6. (1) DINR

(2) GLQU

(3) AEJN

(4) BGLP

7. (1) 8163

(2) 4236

(3) 2632

(4) 5271

8. (1) 103

(2) 241

(3) 211

(4) 133

Q. 9 to 12. → Directions: - In each of the following questions there is a specific relationship between the first and second term. The same relationship exists between the third and fourth term which will replace the question mark (?). Select the correct term from the alternatives given.

9. AXD : EWB :: ? : JRG

(1) ETH

(2) FSI

(3) HRK

(4) FRJ

10. CD10Q : FG16C :: IJ220 : ?

(1) LM28A

(2) LM28Z

(3) LM28B

(4) LM28C

11. 512 : 44 :: 125 : ?

(1) 55

(2) 33

(3) 23

(4) 34

12. 467 : 9 :: 771 : ?

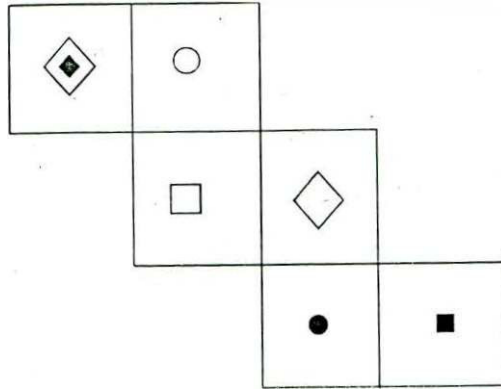
(1) 9

(2) 8

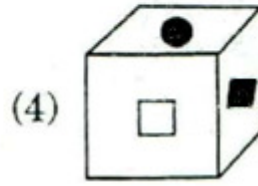
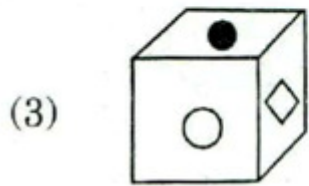
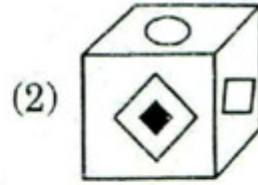
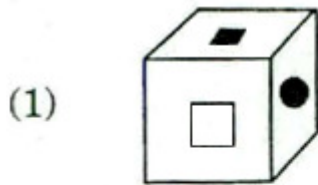
(3) 6

(4) 15

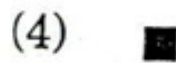
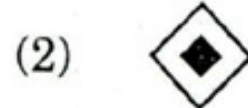
Q. 13 and 14 → Directions :- The following figure is folded to form a cube. Observe the figure and answer the following questions.



13. Find out which alternative from the following will represent the given cube correctly?



14. Which of the following signs will not be adjacent to



Q. 15 and 16. → Directions:- Write the alphabets in the given sequence that will replace the questions mark.

15. CX, EV, HS, LO, ?

- (1) GT
- (2) DW
- (3) BY
- (4) MN

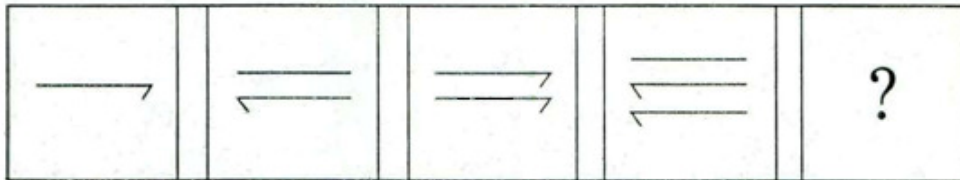
16. Am, NZ, CK, PX EI, ?

- (1) GF
- (2) VR
- (3) US
- (4) RV

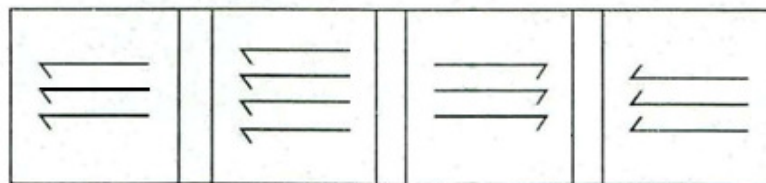
Q. 17 and 18 → Directions :- In each of the following, question figures change in a particular order. Find out the correct figure from the alternatives which will replace the question mark.

17.

Question figures :



Answer Figures :



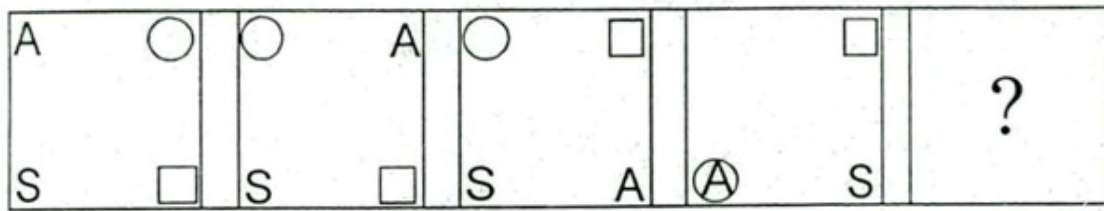
(1)

(2)

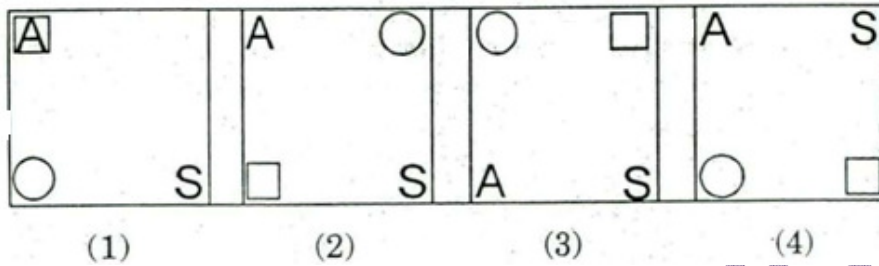
(3)

(4)

18.



Answer Figures :



19. Direction – In the following example one number in each row is in bracket Numbers outside the bracket have some specific relation with the number inside the bracket. Find the relation and replace the question

37	(33)	43
61	(24)	29
57	(?)	13

- (1) 17
- (2) 19
- (3) 35
- (4) 38

20. Direction- In the following table, replace the question mark by choosing the correct alternative given below.

78	15	69
92	12	70
66	17	?

- (1) 48
- (2) 57
- (3) 67

(4) 83

21. Jay starts moving towards South and walks 20m. Then he turns towards South-West direction and walks 25 m. Now he turns to North and walks 245 m. After taking a left turn at this point, he walk 8 m. From that he turns to North and walks 12 m. now at distance jay is standing from the starting point?

(1) 25 m

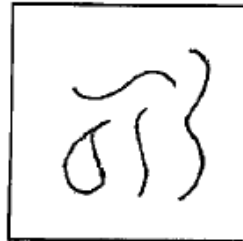
(2) 17 m

(3) 15 m

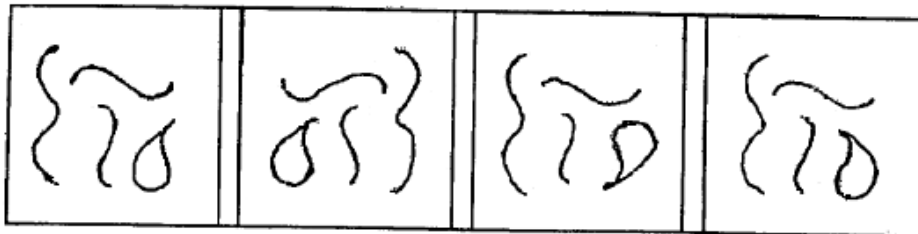
(4) 12 m

22. Choose the correct mirror image of the question figure from the alternatives given below:

Question Figure:



Answer Figures :



(1)

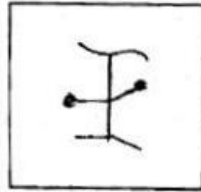
(2)

(3)

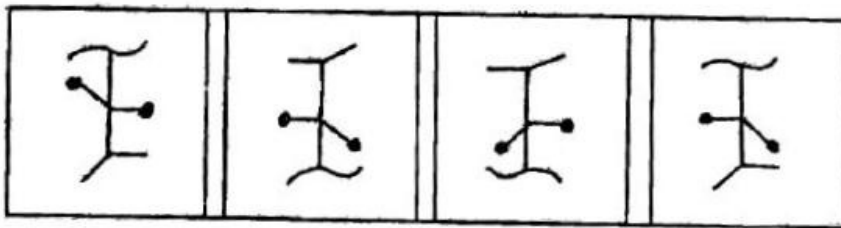
(4)

23. Choose the correct water image of the question figure from the alternatives given below:

Question Figure:



Answer Figures



(1)

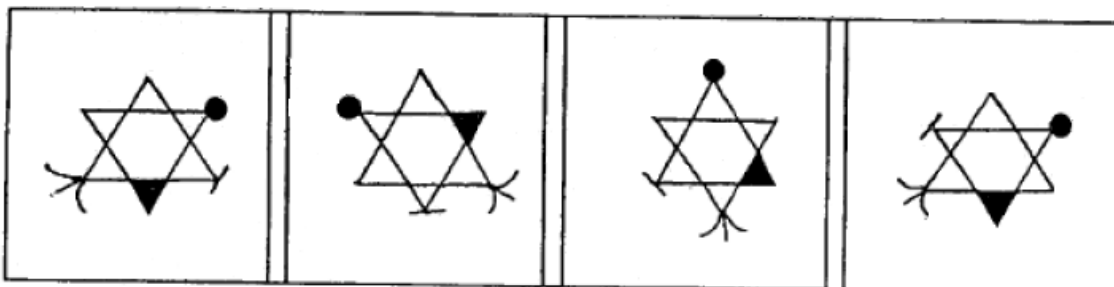
(2)

(3)

(4)

Q, 24 and 25 → Direction :- Find the odd term out.

24.



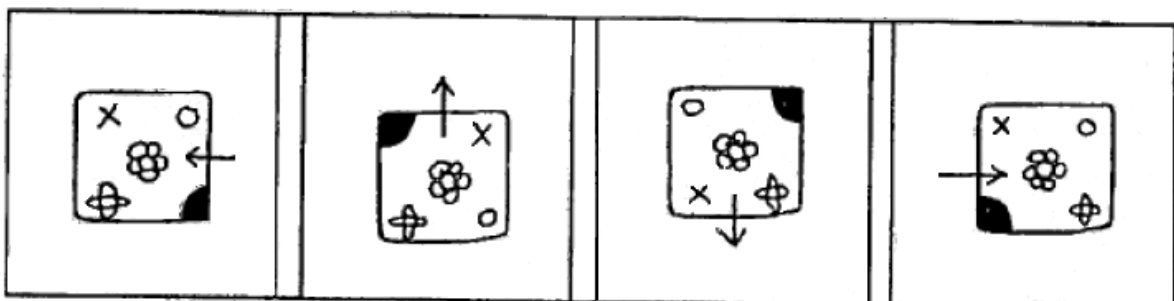
(1)

(2)

(3)

(4)

25.



(1)

(2)

(3)

(4)

Q. 26 and 27. → Directions:- From the information given below, answer the following question:

- (1) A painter knows Hindi.
- (2) A farmer, an advocate and a teacher can speak English fluently.
- (3) Except the teacher, the other three know Gujarati.
- (4) Out of Marathi and Hindi, he advocate and the farmer speak only Marathi, but teacher can speak both the languages.

26. Who know Marathi as well as Gujarati?

- (1) Painter and the advocate
- (2) The farmer and the teacher
- (3) The advocated and the farmer
- (4) The teacher and the painter

27. Who know Hindi not English?

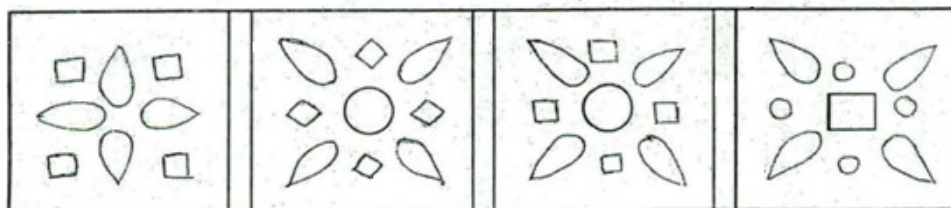
- (1) This farmer
- (2) The teacher
- (3) The advocate
- (4) The painter

28. Direction:- A square piece of paper is folder and cut at specific spots as shown in the question figure. The paper when unfolded will look as shown in one of the alternatives. Select the correct alternative.

Question Figure :



Answer Figures :



(1)

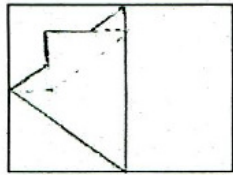
(2)

(3)

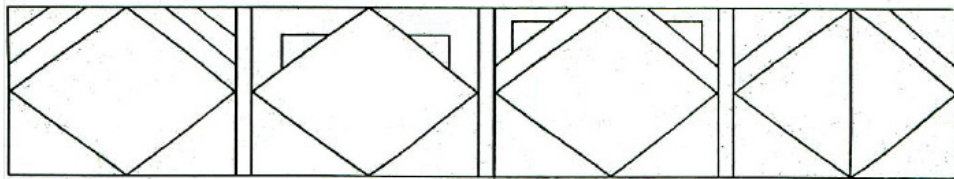
(4)

29. A folder piece of square paper is shown as question figure. When the paper is unfolded, how will it look is show in the alternative. Select the correct alternatives.

Question Figure :



Answer Figures :



(1)

(2)

(3)

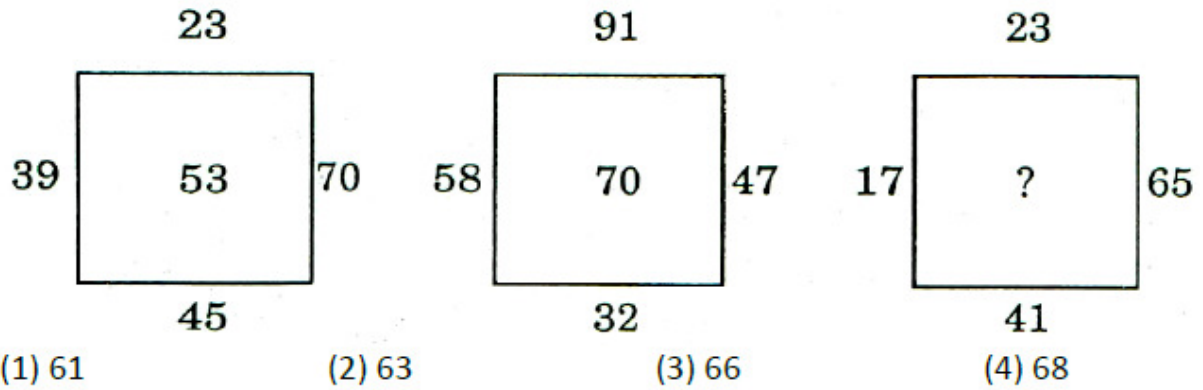
(4)

Q. 30 and 31 → Directions :- Replace the question mark by choosing the correct alternatives from given below

30.

<p>16</p> <p>21 35 28</p> <p>9</p>	<p>21</p> <p>18 54 63</p> <p>15</p>	<p>45</p> <p>37 ? 27</p> <p>36</p>
(1) 42	(2) 56	(3) 64
		(4) /2

31.



32. Harshal is standing at the centre of a row of boys. Ujwal is eighth to the left of Harshal, Shubham is standing twenty first of Ujwal, but he is thirteenth to the left of Kishore. Find the total number of boys standing in a row.

- (1) 27 (2) 35 (3) 52 (4) 53

33. Shrushti, born on 17th May, celebrates her birthday on Thursday in the year 2007. Again in which year her birthday will come on Thursday?

- (1) 2011 (2) 2012 (3) 2013 (4) 2014

Q. 34 and 35. → Direction :- in a certain code language, the sentence, XEROX COPY OF BILL WAS SENT is written as ZGTQZ EQRA QH DKNN YCU YGPV. Using the same code language how will you write the following words?

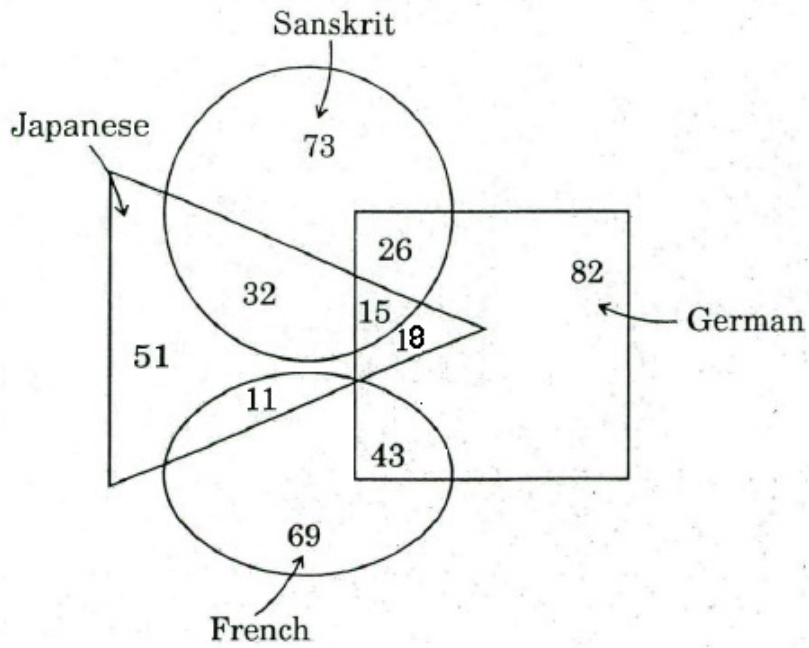
34. WATER = ?

- (1) YBUFS (2) YCVGT (3) EQARR (4) EAVER

35. BLIST = ?

- (1) DNKOV (2) DNKUQ (3) DNKVU (4) DNKVU

Q 36 and 37 → Directions :- In a University some students are learning Sanskrit, Japanese, German and French. In the following Venn diagram the circle represents the students studying Sanskrit, square represents the students studying German, triangle represents studying Japanese and an eclipse represents the students studying French. Observe the figure and answer the question by choosing correct alternative given below.



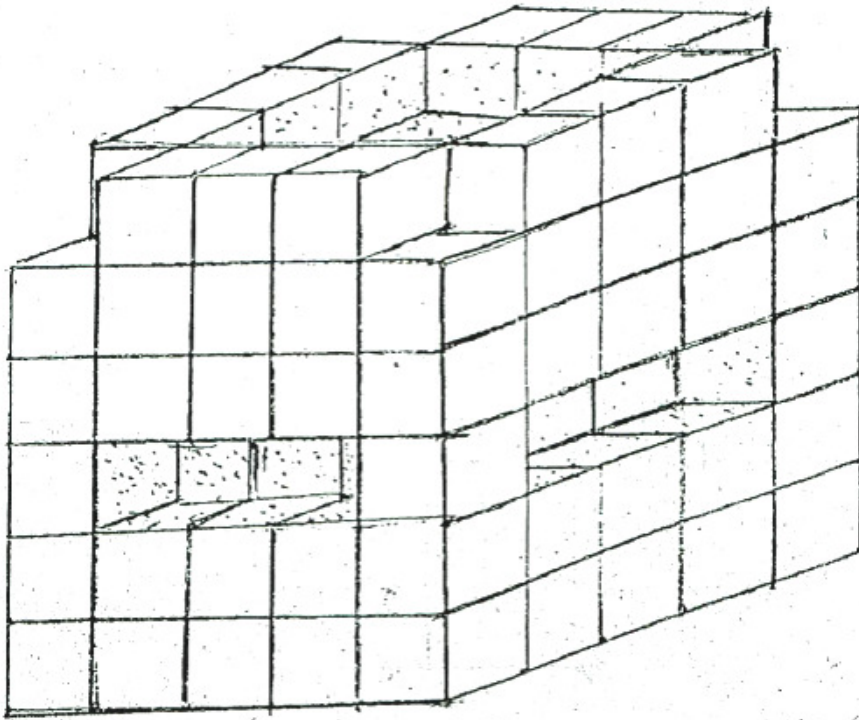
36. How many students studying Japanese learn one more language expect German ?

- (1) 51 (2) 18 (3) 33 (4) 43

37. How many students studying German are learning one more language along with Sanskrit?

- (1) 11 (2) 15 (3) 26 (4) 37

Q. 38 and 39. →Direction :- 125 cubes of same size are arranged as given in the following figure. They are painted from outside. Observe the figure and answer the questions by choosing correct alternative given below.



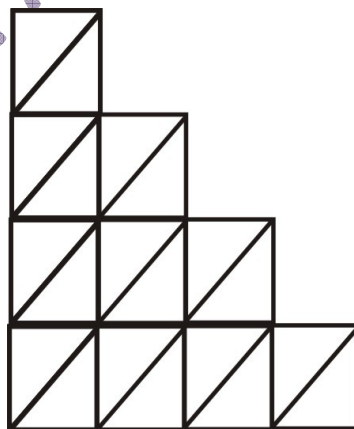
38. How many cubes have four sides coloured?

- (1) 0 (2) 4 (3) 8 (4) 12

39. How many cubes have three sides coloured?

- (1) 25 (2) 24 (3) 12 (4) 8

Q.40 and 41 → Direction :- Observe the following figure and answer the following questions by choosing the correct alternative given below.



Q. 40 Find the number of rectangles which are not squares

- (1) 16 (2) 20 (3) 24 (4) 28

41. How many squares are there in the figure ?

- (1) 0 (2) 3 (3) 10 (4) 13

42. In certain code language if $3 + 3 = 9$, $6 - 3 = 2$, $4 \times 3 = 1$, $3 \div 2 = 1$, then find the value of $5 + 4 \div 24 - 8 \times 6$ in the same code language?

- (1) 9 (2) 11 (3) 17 (4) 29

43. In the following example, if the numbers 3 and 5 are interchanged and the numbers 7 and 9 are interchanged, then find the value of the following expression:

$$93 \div 5 + 7 \times 3 + 25 = ?$$

- (1) 95 (2) 73 (3) 57 (4) 75

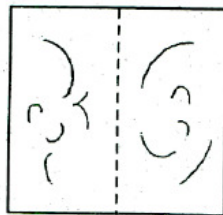
44. In the following question a specific group of letters is given. From the given alternatives, find out the right which matches the given group.

TOL, MEK, RCP

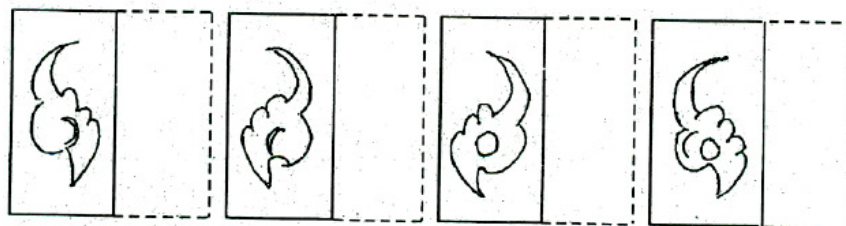
- (1) YAT (2) SFQ (3) WHV (4) BJX

45. A transparent square sheet of paper is folded on the dotted line as shown in the question figure. Choose the correct alternative from the answer figures as how papers will look folded:

Question Figure :



Answer Figures :



- (1) (2) (3) (4)

46. In a certain language if SCHOOL = 24 and TEACHER = 20, then in the same code language CLASS = ?

- (1) 14 (2) 16 (3) 18 (4) 22

47. In a certain code language if CAMP is written as 9, then same code how will the word TEAM be written ?

- (1) 14 (2) 19 (3) 27 (4) 33

48. The seven boys Sunil, Anil, Harshal, Shubham, Kishore, Ujwal and Omsai are sitting in a row. Harshal is sitting in between Shubham and Sunil. Kishore is in between Ujwal and Omsai. Anil is sitting in between Shubham and Ujwal. Sunil and Omsai are sitting at the ends. Then Subham is between which of the two boys?

- (1) Harshal and Anil
 (2) Sunil and Anil
 (3) Anil and Kishor
 (4) Ujwal and Anil

Q. 49 and 50. → Directions:- Observe the Pyramid of alphabets and answer that follow.



49. Which term is related to the terms hgfi, wcfx, lrym ?

- (1) deci (2) pazy (3) xyzq (4) ifby

50. Find the term that will replace the question mark (?)

Fvji : zymm :: gfyx : ?

- (1) cecx (2) dewv (3) gaym (4) aics