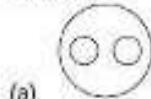


### Logical Reasoning

1. Find the missing number in the given number pattern.



- (a) 316  
(b) 1135  
(c) 291  
(d) 377
2. If 'Train' is called 'Bus', 'Bus' is called 'Tractor' is called 'car', 'Car' is called 'Scooter' is called 'Bicycle', 'Bicycle' is called 'Rickshaw', then which is used to plough a field?
- (a) Train  
(b) Bus  
(c) Tractor  
(d) Car
3. Which of the following Venn Diagrams depict the relationship amongst 'Nose, Body, Hands'?



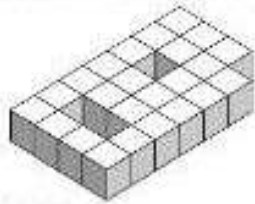
4. In the given letter series, which letter is exactly midway between F and R?  
Y A C B E D F I J H K M N O Q P R U V X T Z
- (a) N  
(b) K  
(c) M  
(d) H

5. Find the missing number, if a certain rule is followed in the given figures.



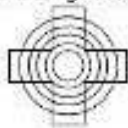
- (a) 25  
(b) 33  
(c) 39  
(d) 41

6. Count the number of cubes in the given figure.

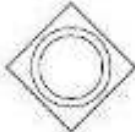


- (a) 23  
(b) 22  
(c) 20  
(d) 24

7. Find the figure which is different from the others.



(a)



(b)



(c)



(d)

8. Select the correct mirror image of the given Fig. (X).



(a)



(b)



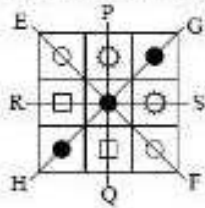
(c)



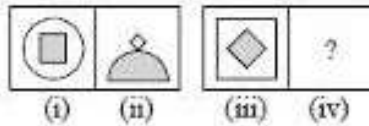
(d)







9. Which line in the given diagram is the correct line of symmetry?



- (a) PQ  
 (b) RS  
 (c) EF  
 (d) GH
10. There is a certain relationship between fig. (i) and (ii). Establish a similar relationship between fig. (iii) and (iv) by selecting a suitable figure from the given options.

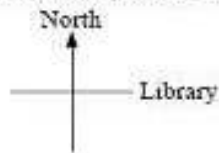


- (a) 
- (b) 
- (c) 
- (d) 

11. Some letters are given which are numbered 1, 2, 3, 4, 5 and 6 followed by four options containing combinations of these numbers. Find the combination of numbers so that letters arranged accordingly form a meaningful word.

E H N T O R  
1 2 3 4 5 6

- (a) 2, 5, 3, 4, 1, 6  
(b) 5, 6, 2, 3, 1, 4  
(c) 4, 2, 6, 5, 1, 3  
(d) 4, 2, 6, 5, 3, 1
12. Beena was facing the library at the beginning. She turned anti-clockwise to face south-east. What angle did she turn through?

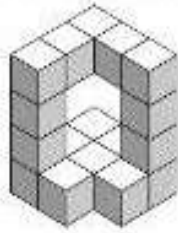


- (a) 130°  
(b) 315°  
(c) 225°  
(d) 230°
13. What is the missing number in the given series below?



- (a) 17  
(b) 27  
(c) 35  
(d) 41

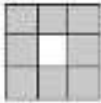
14. Which of the following figures is the top view of the solid?



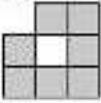
(a)



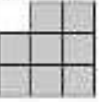
(b)



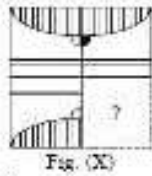
(c)



(d)



15. Which of the following options will complete the Fig. (X) ?



(a)



(b)



(c)

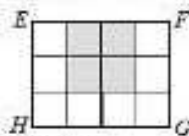



(d)



### Mathematical Reasoning

16. In the given figure, the area of the shaded square is  $196 \text{ cm}^2$ . What is the perimeter of the rectangle EFGH?



- (a) 90 cm  
(b) 54 cm  
(c) 98 cm  
(d) 49 cm
17. Using the given clues, find the value of 

$$\square + \square + \square = 15.9$$

$$\square \times \text{cube} = 21.2$$

$$\text{cube} \times \text{circle} = 1.5$$

- (a) 0.375  
(b) 0.235  
(c) 0.75  
(d) 0.1405

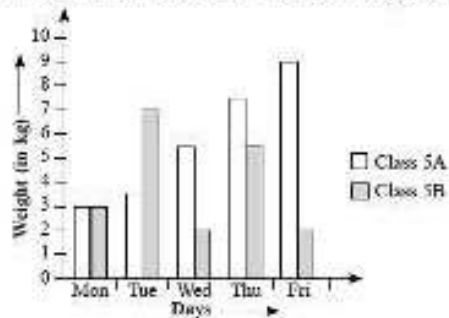
18. Which of the angles in the figure is larger than 2 right angles?



- (a)  $\angle a$   
(b)  $\angle b$   
(c)  $\angle c$   
(d)  $\angle d$
19. The total weight of 3 objects is shown in the figure. The cone is 1 kg heavier than the ball. The ball is 1 kg heavier than the cylinder. What is the weight of the cone?



- (a) 5 kg  
(b) 8 kg  
(c) 6 kg  
(d) 7 kg
20. The given bar graph shows the weight of old newspapers collected by 2 classes over 5 days. What is the difference between the weight collected by class 5A and class 5B?



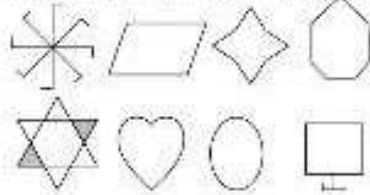
- (a) 20 kg  
(b) 16 kg  
(c) 24 kg  
(d) 9 kg



21. Select the correct match

- (a) 897 – DCCXCVII
- (b) 1234 – MCCXXIV
- (c) 541 – CDXLI
- (d) 547 – DXLVII

22. How many shapes do not have any line of symmetry?



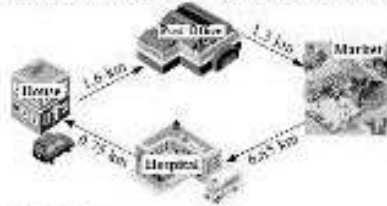
- (a) 3
- (b) 1
- (c) 2
- (d) 4

23. Find the missing value.

$$2.25 \div 9 + 1\frac{1}{8} - (6.5 \times 0.2) = \text{---} ? \text{---} \times \frac{1}{4}$$

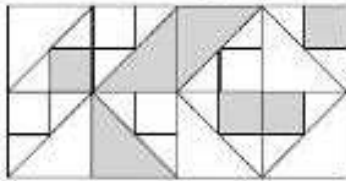
- (a) 0.075
- (b) 0.3
- (c) 1.3
- (d) 1.375

24. Rohan cycled from his house to the post office, then to the market, then to the doctor and then he went to his house. The distances are marked in the given figure. What is the total distance covered by rohan?



- (a) 12.5 km
- (b) 11.4 km
- (c) 9.53 km
- (d) 10.3 km

25. What fraction of the figure is shaded?



- (a)  $\frac{5}{8}$   
(b)  $\frac{5}{16}$   
(c)  $\frac{5}{32}$   
(d)  $\frac{5}{32}$
26. The place value of 6 in 43, 34, 96, 258 is \_\_\_\_\_ .  
(a) 6000  
(b) 60000  
(c) 600000  
(d) 6000000
27. 19 : 40 hrs in 12 hrs clock is written as \_\_\_\_\_ .  
(a) 7:40 a.m.  
(b) 7:40 p.m.  
(c) 9:40 a.m.  
(d) 9:40 p.m.
28. If  $\bullet + \bullet + \bullet + \bullet = 34.03$  and  $\bullet + \bullet + \bullet + \bullet + \bullet = 39590$  g, then  $\bullet + \bullet + \bullet + \bullet + \bullet + \bullet =$  \_\_\_\_\_ .  
(a) 50.56 kg  
(b) 19.03 kg  
(c) 12.5 kg  
(d) 55.56 kg
29. What is the difference in the place value of the digits 8 and 6 in the numeral 8962321?  
(a) 7994000  
(b) 7904000  
(c) 7960000  
(d) 7940000

30. What is the missing sign in the box?

$$4\frac{1}{5} + 9\frac{1}{5} - 3\frac{1}{5} \quad \square \quad 6\frac{1}{4} - 8\frac{1}{4} + 5\frac{1}{4}$$

- (a) <  
(b) =  
(c) >  
(d) Can't be determined
31. Which of the following statements is INCORRECT?  
(a) A square has 4 equal sides.  
(b) A rectangle has 2 pairs of equal sides.  
(c) A square has 4 right angles.  
(d) A rectangle has only 2 right angles.
32. 80 has \_\_\_\_\_ factors.  
(a) 10  
(b) 6  
(c) 8  
(d) 12
33. Mohit drove from Delhi to Chandigarh as per the time shown in the clocks. How long did he drive?



Left Delhi



Arrived Chandigarh

- (a) 5 hours 20 minutes  
(b) 5 hours 25 minutes  
(c) 5 hours 30 minutes  
(d) 5 hours 40 minutes
34. Garima is XIII years old. Her sister is X years old. How old will they be when their total age is LV years?  
(a) XXIX, XXVI  
(b) XXV, XXII  
(c) XX, XXIII  
(d) XIX, XXII

35. The difference between the (sum of third multiple of 18 and the six multiple of 12) and sum of factors of 24 is \_\_\_\_\_.
- (a) 66
  - (b) 186
  - (c) 176
  - (d) 126

#### Everyday Mathematics

36. A company earned Rs. 56,48,000 in a year. If the expenses were Rs. 4,74,596, how much money was saved?
- (a) Rs. 2, 34, 467
  - (b) Rs. 61, 37, 007
  - (c) Rs. 52, 34, 728
  - (d) Rs. 51, 73, 404
37. In a class, there are 28 boys and 14 girls. What fraction of the pupils are girls?
- (a)  $\frac{1}{3}$
  - (b)  $\frac{1}{4}$
  - (c)  $\frac{1}{5}$
  - (d)  $\frac{1}{6}$
38. A fruit seller had 69875 oranges. He packed them in boxes, with each box containing 325 oranges. Find the number of boxes.
- (a) 225
  - (b) 315
  - (c) 215
  - (d) 205
39. Latika takes 3 minutes 20 seconds to finish reading of one page of a storybook. If the book has 42 pages, how long will she take to finish reading it?
- (a) 22 minutes 20 seconds
  - (b) 1 hour 24 minutes
  - (c) 134.4 minutes
  - (d) 2 hours 20 minutes

40. The cost of  $3\frac{1}{2}$  kg of sweets is Rs.  $185\frac{1}{2}$ . Find the cost of 1 kg of sweets.
- (a) Rs. 55
  - (b) Rs. 53
  - (c) Rs. 88
  - (d) Rs. 65
41. Varun purchased a book for Rs. 18.45, a pair of shoes for Rs. 70.25 and a shirt for Rs. 55.75. How much money did varun spend in all?
- (a) Rs. 144.35
  - (b) Rs. 154.53
  - (c) Rs. 144.45
  - (d) Rs. 114.55
42. The base of a rectangular tank is 21.5 m long and 10 m broad. Find the cost of painting the base of the tank, if the cost of painting is Rs. 2.50 per sq. m.
- (a) Rs. 118.50
  - (b) Rs. 215.80
  - (c) Rs. 587.50
  - (d) Rs. 537.50
43. Mini took 35 minutes to complete her homework. She finished her homework at 12 : 05 pm. What time did she start doing her homework?
- (a) 11: 30 p.m.
  - (b) 11: 30 a.m.
  - (c) 12: 40 a.m.
  - (d) 12: 40 p.m.
44. Saurabh can read 6 books in a day. How many weeks will he take to finish 1440 such books?
- (a) 33
  - (b) 35
  - (c) 240
  - (d) 10
45. 68 people can travel in one bus. How many buses will be needed for 1904 people going on a pilgrimage?
- (a) 27
  - (b) 28
  - (c) 26
  - (d) 29

46. In a tower, there are two public libraries. The number of books in one library is 3, 48, 386 and the number of books in the other library is 5, 17, 058.

- (a) What is the total number of books in both the libraries?  
 (b) How many more books does the second library have than the first library?

(a)	(b)
(a) 765484	268493
(b) 765239	168672
(c) 865444	168672
(d) 865444	158672

47. Rohit's car was parked in parking from 2.30 p.m. to 6.25 p.m. How much does he have to pay?

PARKING RATES	
First hour	Rs. 13.20
Every additional half an hour or part thereof	Rs. 4.55

- (a) Rs. 45.5  
 (b) Rs. 35.95  
 (c) Rs. 25  
 (d) Rs. 40.5
48. Which of the following statement is INCORRECT?
- (a) The place value of the digit '2' in the number 532689 is 200 times the number 10.  
 (b) The difference in place value of the digit '7' and '4' in the number 6734581 is 696000.  
 (c) In the number 8176942, the place value of the digit '1' is  $50000 \times 20$ .  
 (d) The place value of the digit '5' in the number 7538612 is 21869 more than 478131.

49. Find the value of  $\frac{P \times Q - S + R}{2}$

$$\begin{array}{r}
 \begin{array}{r}
 \boxed{5} \boxed{P} \boxed{9} \boxed{Q} \\
 463 \overline{) 2730311} \\
 \underline{-231} \boxed{R} \\
 4153 \\
 \underline{-3704} \\
 4491 \\
 \underline{-4} \boxed{S} \boxed{6} \boxed{7} \\
 3241 \\
 \underline{-3241} \\
 0 \\
 \underline{0} \\
 0
 \end{array}
 \end{array}$$

- (a) 40
- (b) 30
- (c) 60
- (d) 55

50. Monu is thinking of a four-digit number.
- The fourth digit is the greatest.
  - When the third digit is divided by the first digit, the quotient is 2.
  - The difference between the second and third digit is 1.
  - The first digit is double of 2.
- (a) 3768
  - (b) 4789
  - (c) 5698
  - (d) 1239