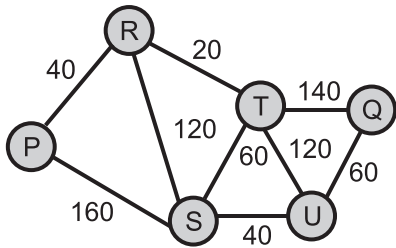


# MENTAL ABILITY

1. Ridhima has 411 chocolates fewer than the number of chocolates Divya has. Divya has 199 more chocolates than Iqbal. If Iqbal has 940 chocolates, how many chocolates Ridhima has?

- (1) 738
- (2) 728
- (3) 828
- (4) None of these

2. The picture below shows below bus routes and ticket prices between 6 places. What is the least amount of money Ankita has to pay for the tickets to go from place P to place Q?



- (1) 160
- (2) 220
- (3) 240
- (4) 200

3. Solve the following:

+ = ₹ 900

= - ₹ 50

= ?

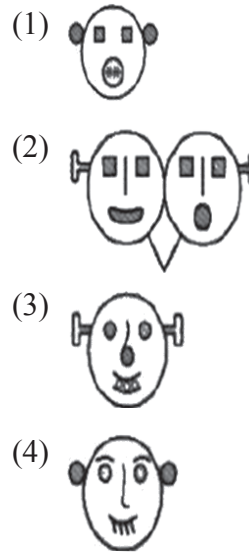
- (1) 2000
- (2) 2200
- (3) 2400
- (4) None of these

4. Find the missing number.

57647, 58147, 58647, \_\_\_\_\_, 59647, 60147, 60647.

- (1) 58657
- (2) 59147
- (3) 59627
- (4) None of these

5. Which of the following figures contains exactly three circles?



6. Manas lists every 3-digit number whose digit add up to 8. What is the sum of the largest and the smallest numbers in his list?

- (1) 707
- (2) 907
- (3) 1000
- (4) None of these

7. I am a 3 digit even number. The sum of my digit is 9. My tens digit is twice that of my hundreds digit, who am I?

- (1) 243
- (2) 621
- (3) 216
- (4) 360

8. Ram had 42 beads. He gave 7 beads to his friend. His mother gave him twice the number of beads that were left with him. How many beads does Ram have now?

- (1) 105
- (2) 98
- (3) 70
- (4) None of these

9. John kept a box in a shelf that is 96.4 cm long. The box is 33.2 cm long. What is the longest box he can keep in the rest of the shelf?

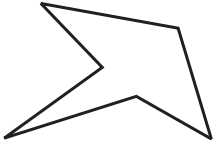
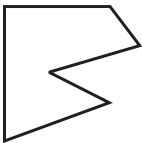
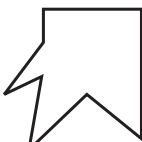

- (1) 99.6 cm
- (2) 66.4 cm
- (3) 96.4 cm
- (4) 63.2 cm

10. Container X holds  $5\frac{1}{4}$  l of water. Container Y holds twice as much water as container X. Find the volume in l of water in container Y.

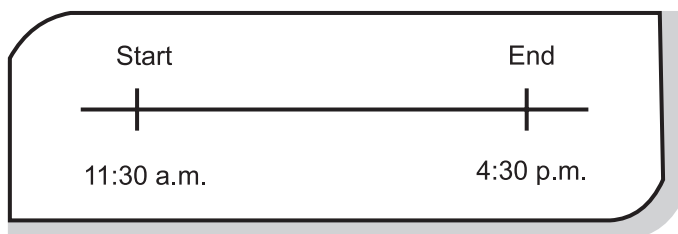
- (1) 10920
- (2) 109.2
- (3) 1092
- (4) 10.92

## MATHEMATICS

11. David drew a 6 sided figure with no right angles. Identify the figure.

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

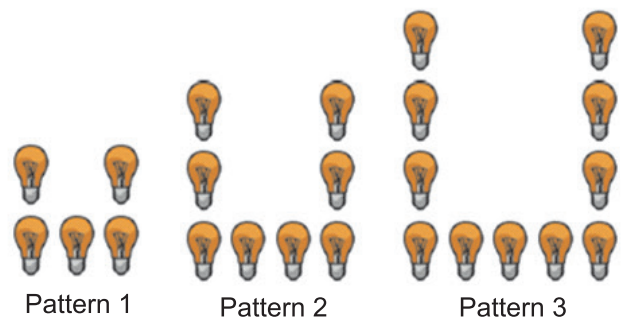
12. The diagram shows a time line.



Find the duration between the two times.

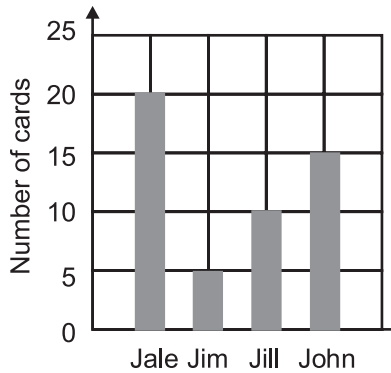
- (1) 16 hours
- (2) 7 hours
- (3) 17 hours
- (4) 5 hours

13. How many bulbs, as shown below, will be there in pattern 20?



- (1) 62
- (2) 41
- (3) 52
- (4) None of these

14. At a local school, students sold post cards for a fundraiser. The bar graph shows how many cards each student sold?



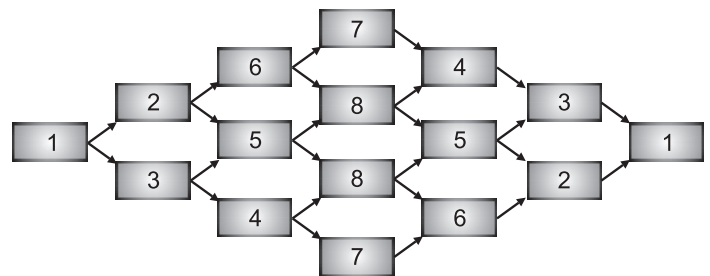
Who sold more than a dozen cards?

- (1) Jale and Jim  
 (2) Jill and John  
 (3) Jim and Jill  
 (4) Jale and John
15. Arjun has a 5 digit number in his mind. The digit '3' is in the tens place and the thousands place. The digit in the ones place is thrice the digit in the tens place. The digit '7' has a value of 700 and the digit '2' stands for twenty thousand. What is the number that Arjun has in mind?
- (1) 27639  
 (2) 23739  
 (3) 93276  
 (4) None of these
16. Gaurav Singh bought a pen worth five and a quarter rupees, an ink-bottle worth six and a half rupees and a ruler worth one and a half rupee. How much money he gave to the shopkeeper?
- (1) Thirteen and a half rupees.  
 (2) Thirteen rupees.  
 (3) Thirteen and a quarter rupees.  
 (4) Twelve and three quarters rupees.

17.  $\frac{7}{12}$  of the students in a class are Hyderabadis and the rest are Punjabis. What fraction of the students in the class are Punjabis?

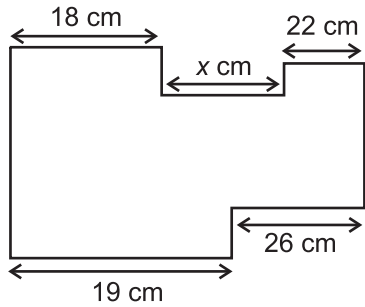
- (1)  $\frac{4}{12}$   
 (2)  $\frac{5}{12}$   
 (3)  $\frac{6}{12}$   
 (4) None of these
18. Which of the following statements is not true?
- (1) All squares are quadrilaterals.  
 (2) All squares are rectangles.  
 (3) All quadrilaterals are rectangles.  
 (4) All rectangles are quadrilaterals.
19. Which of the following is not true?
- (1) 7 O'clock in the morning is 7:00 a.m.  
 (2) 6:45 in the evening is 6:45 p.m.  
 (3) Half past nine at night is 9:30 p.m.  
 (4) 12:00 noon is 12:00 a.m.

20. Find the sum of the numbers



- (1) 64  
 (2) 70  
 (3) 72  
 (4) None of these
21. The number of 3 digit even numbers that can be written using the digit 0, 3, 6 without repetition is:
- (1) 6  
 (2) 3  
 (3) 4  
 (4) None of these

22. Find the value of  $x$  in the given figure.



- (1) 8
- (2) 6
- (3) 3
- (4) 5

23. Shiv has fifteen coconuts and Sachin has only nine. How many coconuts should Shiv give to Sachin so that each have the same number of coconuts?

- (1) 4 coconuts
- (2) 2 coconuts
- (3) 3 coconuts
- (4) 5 coconuts

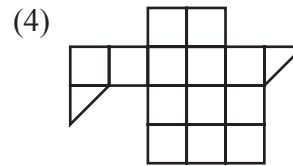
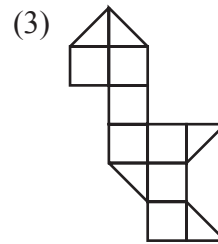
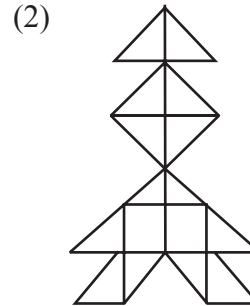
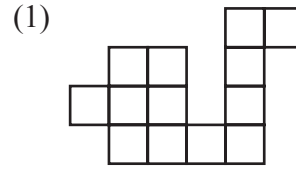
24. What need to be added to 5 rupees and 45 paise to make 10 rupees?

- (1) 5 rupees
- (2) 4 rupees and 45 paise
- (3) 4 rupees and 55 paise
- (4) 4 rupees and 65 paise

25. A pizza was cut into 8 equal pieces. Kamal ate a piece and Sujath ate 2 pieces. What fraction of the pizza was left?

- (1)  $1/8$
- (2)  $5/8$
- (3)  $3/8$
- (4) None of these

26. Which figure has the maximum area?



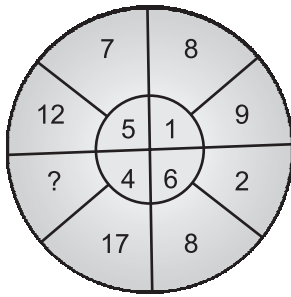
27. Anna has two 100 rupees notes. She also has twelve 10 rupees notes and ten 1 rupees notes. How much money does she have in total?

- (1) ₹ 321
- (2) ₹ 330
- (3) ₹ 320
- (4) ₹ 331

28. A movie started at eleven o'clock A.M. and last for three hours. At what time did the movie end ?

- (1) 12:00 P.M
- (2) 1:00 P.M.
- (3) 2:00 P.M.
- (4) 3:00 P.M.

29. Find the missing term in the following.



- (1) 11
- (2) 12

- (3) 13
- (4) None of these

30. Jitu threw twelve dimes. Three times more coins landed heads up than the number that landed tails up. How many coins landed heads up?

- (1) 10
- (2) 8
- (3) 7
- (4) 9

## INTERACTIVE SECTION

31. "700 was added 35 times". The total is:

- (1) 35700
- (2) 35000
- (3) 25400
- (4) 24500

32. Akhil has to work for 5 days and he can choose between 2 methods of payment.

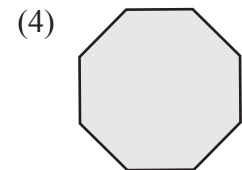
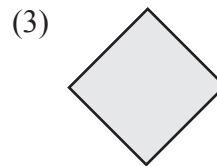
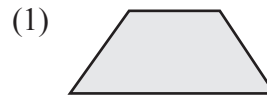
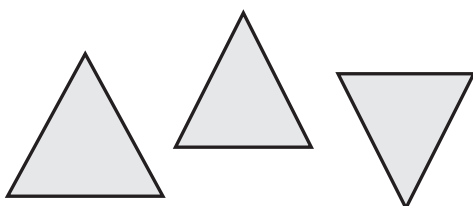
**Option 1:** He will be paid ₹ 5 for each day of work

**Option 2:** He will be paid ₹ 1 on the first day. On each subsequent day of work, his pay will be doubled.

How much more money will he get by choosing the better pay option?

- (1) ₹ 5
- (2) ₹ 6
- (3) ₹ 7
- (4) None of these

33. Look at the three triangles. Which of the following shapes can be made from the three triangles ?



34. The length of a rectangular garden is 45 metres. To have a seven layered fencing around a rectangular garden, 952 metre wire is required. Find the breadth of the garden.

- (1) 46
- (2) 30
- (3) 23
- (4) None of these

35. The difference between the place value and the face value of the digit 5 in 49526 is:

- (1) 500
- (2) 505
- (3) 5
- (4) 495

36. A team has 90 rupees to buy balls. One ball costs ₹ 7. The team gets fifth ball free. What is the largest number of balls the team can get?

- (1) 20 balls
- (2) 12 balls
- (3) 16 balls
- (4) 15 balls

37. A monkey is trying to climb a 6 metre coconut tree. It climbs for 1 minute and rests for 1 minute and rests for 1 minute. It climbs 2 m every minute but it slides down 1 metre for every minute that it rests.



How many minutes will it take to reach the top of the tree?

- (1) 9 minutes
- (2) 5 minutes
- (3) 6 minutes
- (4) 7 minutes

38. We cut a 160 grams of butter in half. We then cut one of the halves into 4 equal slices. Find the weight of one slice.

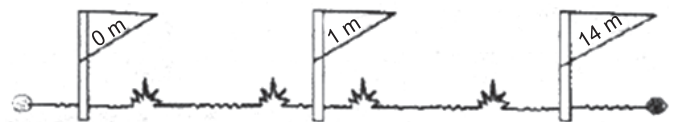


- (1) 16 grams
- (2) 20 grams
- (3) 24 grams
- (4) None of these

39. A peasant bought a cow for ₹ 3000 and sold her for ₹ 4000. He bought her back for ₹ 6000 and sold it again for ₹ 5600. How much did he gain or lose in this transaction?

- (1) ₹ 600 gain
- (2) No loss, no gain
- (3) ₹ 1000 gain
- (4) ₹ 400 loss

40. At a marathon, flag posts were placed at equal distances. Find the distance between the second flag post and the sixteenth flag post.



- (1) 91 m
- (2) 98 m
- (3) 112 m
- (4) None of these



**END OF THE EXAM**