



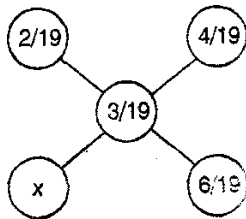
An Eye on Talent

Olympiad Aptitude Test Mathematics- Grade IV

1. X is a number. X tells I am both factor and multiple of myself. Which one of the following is X?

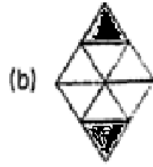
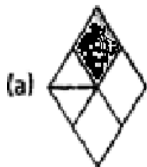
(a) 1 (c) 5
(b) 7 (d) All of the above

2. What is the value of x, so that the sum of fractions in the diagonal is same?



a) 5/19 b) 7/19
c) 4/19 d) 8/19

3. Which shape does not show one-quarter shaded?



4. I am thinking of a number. If I multiply the number by 85, then add 187 and finally subtract 22, the result is 3735. What number am I thinking of?

(a) 42 (c) 36
(b) 48 (d) 365

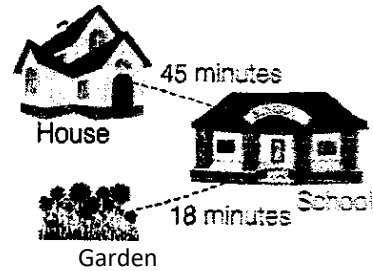
5. In a grazing field, there are 60 goats, 30 deers and 10 children. How many legs are there in the field?

(a) 400 (b) 200
(b) 380 (d) 480

6. Amelie started baking cake. It took 2 hours and 15 minutes to complete it. She completed it at 17:35. At what time did she start baking the cake?

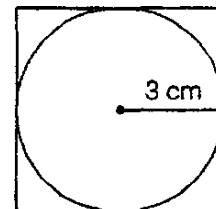
(a) 15:20 (c) 16:35
(b) 15:00 (d) 14:20

7. The diagram below shows the travelling time of Michael from house to school and school to garden. If it is 6:20 am now, then at what time will he reach the garden, if he starts travelling from his home?



(a) 7:10 am (b) 6:55 am
(c) 7:15 am (d) 7:23 am

8. A circle is inscribed in a square as shown below. Then, the area of the square is



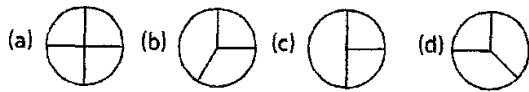
(a) 12 cm²
(b) 20 cm²
(c) 36 cm²
(d) Cannot be determined

9. Frank's backyard is 20 sq ft and he wants the basketball court of length 5 ft and breadth 4 ft to be placed into his backyard. Does Frank have enough space?
- Yes, the backyard is big enough because both the backyard and basketball court are equal
 - No, because basketball court is 24 sq ft
 - Yes, because backyard has more area than basketball court
 - Cannot be determined

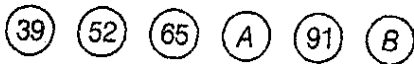
10. IV consists of 28 children. All children of the class are getting ready for a drama. Some children are acting, some are busy in collecting dresses while some are bringing chairs and tables to make the sets.

Work	Number of children
Acting	14
Collecting	7
Making sets	7

Which of the following pie chart would be most appropriate to depict the above information?



11. Identify the pattern and find the difference between **A** and **B**.



- 26
- 58
- 40
- 78

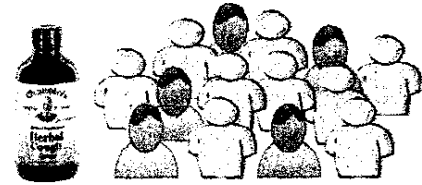
12. If Kathleen lost the book and fine is twice the cost of the book, then how much amount will librarian charge, if the cost of book is Rs.192.65?

- Rs. 385.30
- Rs. 354.28
- Rs. 122.85
- Rs. 65923

13. Which of the following gives a quotient between 1300 and 1500?

- 48600-30
- 58000-40
- 64500-50
- 69600-5-60

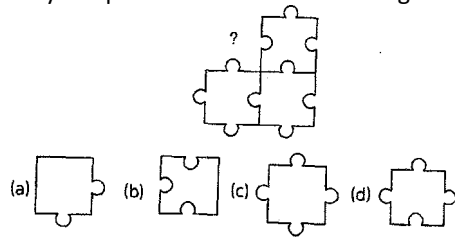
14. A doctor has syrup bottle which is to be given equally to the patients as shown in the diagram. How much syrup will be given to each patient



1190 mL

- 90 mL
- 82 mL
- 85 mL
- 63 mL

15. Study the pattern and find the missing term.

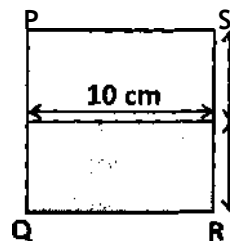


16. State true or false and mark the correct option.

- 3 hours 14 minutes equals 10814 seconds.
- 5:30 pm or 16:30 are same.
- 3 hrs 49 min - 2 hrs 58 min = 11 min
- 131 hours = 5days 11 hours

	I	II	III	IV
a	T	T	F	F
b	F	F	T	T
c	T	F	T	F
d	F	F	F	T

17. The figure shows a square PQRS.



What is the perimeter of the shaded part?

- 10 cm
- 20 cm
- 30 cm
- 50 cm

18. The diameter of a circle is doubled. How does its radius change?

- (A) Triples (B) Halved
(C) Remains same (D) Doubles

19. Ravi wrote two digits of a 3-digit number on the blackboard as shown in the grid.

1	?	3
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Find the missing digit if it has 11 and 13 as factors?

- (a) 2 (c) 4
(b) 6 (d) 8

20. Find the ascending order of the numbers in the box.

LXIV, XLVI, LXVI, XUV

- (a) LXVI, LXIV, XLVI, XUV
(b) LXVI, XLVI, LXIV, XUV
(c) XUV, XLVI, LXIV, LXVI
(d) XLVI, XLIV, LXVI, LXIV