

SATISH CHANDRA MEMORIAL SCHOOL

MID TERM: SURPRISE TEST

STD – VIII

SUBJECT – MATHEMATICS

F.M: 15

TIME: 35 MIN

I. **CHOOSE THE CORRECT OPTION :**

(1 x 4 =4)

- The rational number(s) whose multiplicative inverse is the number itself is/are :
(a) 1 (b) 0 (c) 1, - 1 (d) 1, 0
- If I pick a card from a deck of 52 playing cards then the probability that the card is **NOT** a king is _____.
(a) $1/13$ (b) $12/13$ (c) 1 (d) $\frac{1}{2}$
- If the expressions $(x/3 - 5)$ and $(2x/5 - 3/5)$ are equal then the value of x is –
(a) -22 (b) 84 (c) -66 (d) -28
- Assertion (A):** The length of one side and the diagonals of a Rhombus are respectively 13cm, 10 cm and 24 cm.
Reason(R): The diagonals of a Rhombus bisect each other at right angle and (5, 12, 13) is a Pythagorean triplet.
(a) Both the assertion and reason are correct and the reason is the correct explanation.
(b) Both the assertion and reason are correct but the reason is not the correct explanation.
(c) Assertion is false, reason is true.
(d) Assertion is true, reason is false.

II. **ANSWER THE FOLLOWING QUESTIONS :**

- Express 1296 as a sum of consecutive odd numbers. Evaluate $\sqrt{94.09}$ using Long division method. (1+2)
- Which smallest numbers need to be multiplied and divided to make the number 1188, a perfect cube? (2)
- What is the probability of getting a number less than 9 in a throw of a dice? (1)
- Find the central angles for the sectors 'Walking' and 'Bicycle'. (1)
- Is 2352 a perfect square? If not, find the least number that must be added and subtracted to make it a perfect square. Also find the square roots of the number so obtained. (4)

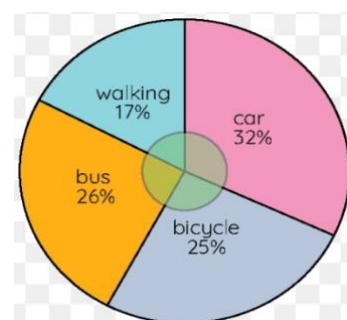


Figure related to Q.8