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Time: 2 Hour Total Marks: 45

Class : VII
Subject : Mathematics

MCQ SINGLE CORRECT

1. Two obtuse angles form a linear pair.

   (a) Yes **(b)** No

2. State whether a given pair of terms is of like or unlike terms:
   14 xy, 42 yx

   (a) Yes **(b)** No

3. –75 ÷ ----- = –1

   (a) 75 **(b)** -75

4. Adjacent angles can be complementary.

   (a) Yes **(b)** No

5. ----- ÷ 48 = –1

   (a) -48 **(b)** 48

TRUE/FALSE

6. Two obtuse angles can be complement of each other.

   (a) True **(b)** False

7. Two right angles can be supplementary.

   (a) True **(b)** False

8. The data 6, 4, 3, 8, 9, 12, 13, 9 has mean 9.

   (a) True **(b)** False

9. The mode is always one of the numbers in a data.

   (a) True **(b)** False

10. Two right angles can be complement of each other.

    (a) True **(b)** False

FILL IN THE BLANKS

11. If two lines intersect at a point, and if one pair of vertically opposite angles are acute angles, then the other pair of vertically opposite angles are _____

All The Best!!!

12. Two angles forming a linear pair are _____

13. If two angles are supplementary, then the sum of their measures is _____

14. If two lines intersect at a point, then the vertically opposite angles are always _____

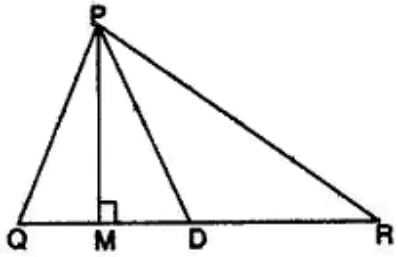
VERY SHORT DESC

15. Which of the following can be the sides of a right triangle ?
    1.5 cm, 2 cm, 2.5 cm.

16. Is the given pair represent the same number ?
    $\frac{-7}{21}$ and $\frac{3}{9}$

17. Replace the blank with an integer to make it a true statement.
    ----- × (–12)= 132

18. In △ PQR, D is the mid-point of $\overline{QR}$.



$\overline{PM}$ is -----
PD is -----
Is QM = MR ?

19. Find the mode of 2, 14, 16, 12, 14, 14, 16, 14, 10, 14, 18, 14

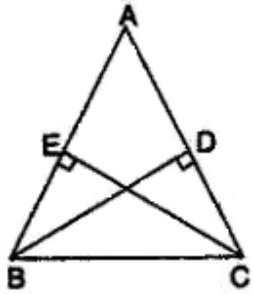
20. Find the value of the following expression, when x = –1
    2x – 7

SHORT DESC - 25 WORDS

21. Find the whole quantity if
    8% of it is 40 litres.

22. Find the area of rectangle whose length is 5.7 cm and breadth is 3 cm.

23. In figure, BD and CE are altitudes of △ ABC such that BD = CE.



(i) State the three pairs of equal parts in △ CBD such that △ BCE.
(ii) Is △ CBD ≅ △ BCE ? why or why not ?
(iii) Is □DCB = □EBC ? Why or why not ?

24. Solve the following equation :
$\frac{3p}{4} = 6$

25. Solve the following equation :
$10p = 100$

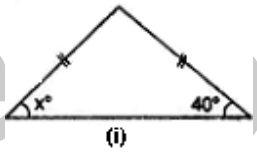
MED DESC - 50 WORDS

26. Find the cost of polishing a circular table-top of diameter 1.6 m, if the rate of polishing is Rs. 15/ m^2. (Take $\pi = 3.14$)

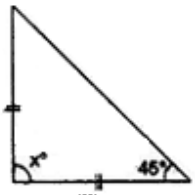
27. Find the five rational numbers between $-\frac{5}{7}$ and $-\frac{3}{8}$.

28. Pragya wrapped a cord around the circular pipe of the radius 4 cm (adjoining figure) and cut off the length required of the cord. Then she wrapped it around the square box of side 4 cm (also shown). Did she have any cord left ? ($\pi = 3.14$)

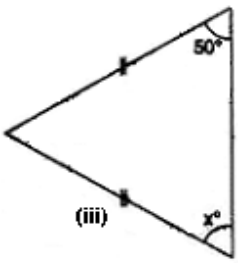
29. Find angle x in each figure :



(i)



(ii)



(iii)

30. Express the following as a product of prime factors only in exponential form :
729×64