

**A K M PUBLIC SCHOOL**  
**FIRST SEMESTER EXAMINATION (SAMPLE QUESTION PAPER)**

CLASS : VII

MARK :50  
TIME : 2 hrs

**SECTION A**

**MULTIPLE CHOICE QUESTION**

1 x 10 = 10

1. \_\_\_\_\_ is an improper value.  
( $\frac{9}{11}, \frac{4}{7}, \frac{5}{7}$ )
2.  $0.35 \times 0.2$  is equal to  
( $0.70, 7.0, 0.070$ )
3. The equation for the number  $x$  divided by 5 gives 6.  
( $\frac{x}{5} = 6, \frac{x}{5} = 5, 5x = 6$ )
4. The difference between the highest and the lowest observations of a data is called \_\_\_\_\_.  
(mean, range, median)
5. A ray has \_\_\_\_\_ end points.  
(0, 2, 1)
6. A line which intersects two or more given lines at different points is called \_\_\_\_\_.  
(intersecting lines, parallel line, transversal lines)
7.  $107^\circ, 75^\circ$  are called \_\_\_\_\_ angles.  
(supplementary, complementary, corresponding)
8. The \_\_\_\_\_ of a set of observation is the observation that occurs most often.  
(median, mode, mean)
9. \_\_\_\_\_ is the only number which has its own reciprocal.  
(1, 2, 4)
10. Assertion: The value of the variable in an equation for which the equation is called the solution of the equation.  
Reason: The solution of the equation  $2x - 3 = 5$  is  $x = 4$ 
  - a) Both assertion and reason are correct and reason is the correct explanation for assertion
  - b) Both assertion and reason are correct and reason is not the correct explanation for assertion
  - c) Assertion is true but reason is false
  - d) Both assertion and reason are false

**FILL IN THE BLANKS**

$\frac{1}{2} \times 10 = 5$

11. A fraction whose denominator is any of the numbers 10, 100, 1000 etc is called a \_\_\_\_\_ fraction.

12. The place value of 9 in 2.932 is \_\_\_\_\_.

13. The representation of data with bars of uniform width is called \_\_\_\_\_.

Category of shopper	Frequency
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14. An

\_\_\_\_\_ is a condition on a variable.

15. A line segment has \_\_\_\_\_ end points.

16. An equation in which the highest power of the variable is 1 is called \_\_\_\_\_.

17. The sum of all the angles around a point is \_\_\_\_\_.

18. When two lines intersect the vertically opposite angles so formed are \_\_\_\_\_.

19. The complement angle of  $20^\circ$  is \_\_\_\_\_.

20.  $6x = 30$ ,  $x =$  \_\_\_\_\_.

### MATCH THE FOLLOWING

$1 \times 4 = 4$

- 21. Parallel lines are always - supplementary angles
- 22. Linear pair angles are also - length
- 23. A line segment has fixed - equal
- 24. Vertically opposite angles are always – equidistant

### SECTION B

### SHORT ANSWER QUESTIONS

$2 \times 5 = 10$

25. Find the product  $\frac{5}{6} \times 2\frac{3}{7}$ .

26. Write the expanded form of 29.235

27. Find the median of the data 34, 46, 56, 27, 28, 35, 45

28. Solve

a)  $x - 4 = 7$

b)  $\frac{p}{7} = 4$

29. Set up equations and solve: On adding 4 to eight times a number will give you 60.

### SECTION C

Questions 30-33 carries 3 marks each

$4 \times 3 = 12$

30. Multiply and reduce to lowest form

$$\frac{2}{5} \times \frac{15}{16}$$

31.  $3.96 \div 4$

32. A die was thrown 15 times and the outcomes recorded were 5, 3, 4, 1, 2, 4, 4, 2, 3, 2, 1, 5, 6, 1, 2 find the mean.?

33. Identify which of the following pairs of angles are complementary and which are supplementary (95, 85) (35, 55) (112, 68) (80, 10)

Question 34 carries 4 marks

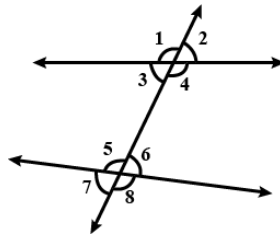
34. Draw the bar graph

Man(M)	15
Women(W)	28
Boy(B)	5
Girl(G)	12

**Question 35 carries 5 marks**

**35. CASE STUDY**

Adithya and Anushka were playing a game on parallel lines and the angles are formed by the transversal the questions asked during the game was



- Which is the vertically opposite angle of  $\angle 3$   
a)  $\angle 2$  b)  $\angle 4$  c)  $\angle 1$  d) none of these
- If  $\angle 5 = 80$  what is the measure of  $\angle 6$   
a) 180 b) 100 c) 90 d) 50
- Which is the corresponding angle of  $\angle 2$   
a)  $\angle 5$  b)  $\angle 6$  c)  $\angle 7$  d)  $\angle 8$
- What is the sum of  $\angle 7$  &  $\angle 8$
- Which will be the pair of interior angles on same side of transversal  
a)  $\angle 3$  &  $\angle 6$ ;  $\angle 4$  &  $\angle 5$  b)  $\angle 2$  &  $\angle 6$ ;  $\angle 1$  &  $\angle 5$   
c)  $\angle 3$  &  $\angle 7$ ;  $\angle 4$  &  $\angle 8$  d) none of these