

MAHATMA GANDHI GOVERNMENT SCHOOL (ENGLISH MEDIUM)
MANSAROVAR, JAIPUR
HALF YEARLY EXAMINATION-2021-22
CLASS-VII
SUBJECT- MATHEMATICS

DURATION- 2:15 HOURS

MAXIMUM MARKS- 42

Choose the correct answers

1. Which of the following pairs of angles are supplementary? 1
 (a) $48^\circ, 42^\circ$ (b) $60^\circ, 60^\circ$ (c) $75^\circ, 105^\circ$ (d) $179^\circ, 2^\circ$
2. The solution of the equation $ax+b=0$ is 1
 (a) a/b (b) $-b$ (c) $-b/a$ (d) b/a
3. The median of the data : 3,5,4,6,7,3,4 is 1
 (a) 5 (b) 3 (c) 4 (d) 6
4. The operation 'of' represents... 1
 (a) addition (b) subtraction (c) multiplication (d) division
5. When we add a positive integer and a negative integer, the result is 1
 (a) is always positive (b) is always negative (c) is zero (d) can be positive or negative

Very short question

6. What is the greatest negative integer? 1
7. What will be the sum of two negative integers? 1
8. Write one equivalent fraction of $4/7$ 1
9. Express 6 cm. in meter. 1
10. Name the triangles which has 3 congruent sides and 3 congruent angles. 1
11. If the complement of an angle is 62° , then find its supplement. 1
12. Find the range of data : 21, 6, 17, 18, 12, 8, 4, 13 1
13. What is an equation? 1
14. What we call a number that multiplies the variable? 1
15. Find the value of y which satisfies $3y = 5$ 1

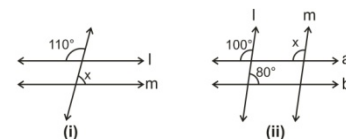
Fill in the blanks

16. If two angles are supplementary, then the sum of their measures is 1
17. $8/9$ is a Fraction.(proper/ improper) 1
18. property of multiplication states that $a \times b = b \times a$ for integers a and b. 1
19. A number that does not change(constant/ variable) 1
20. Value of the middle most observation, when arranged in ascending or descending order is called 1

Long questions

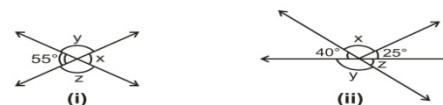
21. Find the value of x in each of the following figures if $l \parallel m$.

4



22. Find the values of the angles x, y and z in each of the following :

6



23. Solve the following equations :

4

- (a) $4 = 5(p-2)$ (b) $0 = 16 + 4(m-6)$ (c) $4(2-x) = 8$ (d) $2(x+4) = 12$

24. The weights(in kg) of 15 students of a class are :

4

38,42,35,37,45,50,32,43,43,40,36,38,43,38,47

- (i) Find the mode and median of this data.
- (ii) Is there more than one mode?

25. Dinesh went from place A to place B and from there to place C . A is 7.5 km from B and B is 12.7 km from C. Ayub went from place A to place D and from there to place C. D is 9.3 km from A and C is 11.8 km from D.

Who travelled more and by how much ?

4

