Muktangan English School & Jr. College, Pune - 9

Formative Written Test - I (2024 - 25)
Standard - VII

Subject - Mathematics	**Marks - 20**
Date - 13.8.2024	**Time - 8.15 a.m. to 9.30 a.m.**

Q.1 **A)** **Fill in the blanks with correct alternatives and rewrite the sentences.** **[2]**

1. _____ is neither a prime nor a composite number.

   a) 3   b) 1   c) 2

2. The additive inverse of $\dfrac{3}{2}$ is _____ .

   a) $\dfrac{3}{2}$ b) $\dfrac{2}{3}$ c) $-\dfrac{3}{2}$

B) **State whether the following statements are true or false and** **[2]**
rewrite the statements.

1) If given line segments are equal in length then they are congruent.

2) The product of two positive integers is a negative integer.

Q. 2 **Attempt any three of the following.** **[6]**

1. Draw a line segment PQ of length 6.5 cm and draw its perpendicular bisector.

2. Multiply : a) $(-12) \times (-7)$

   b) $6 \times (-8)$

3. Factorise 32 into prime numbers.

   Solution :

   $32 = 2 \times \boxed{}$

   $= 2 \times 2 \times \boxed{}$

   $= 2 \times 2 \times \boxed{} \times 4$

   $= 2 \times 2 \times 2 \times \boxed{} \times 2$

4. Divide : a) $9 \div (-54)$

   b) $100 \div 60$

Q. 3 **Attempt any two of the following.** [6]

   1.   Draw an equilateral triangle with side 5.5 cm.

   2.   Find the H.C.F. of 15, 30,90.

      Solution :

3	15	30	90
5	☐	10	☐
	1	☐	☐

H.C.F. = 3 X ☐

       = ☐

   3.   Write two divisions of integers such that the fractional form of each will be $\dfrac{-5}{7}$

Q. 4 **Attempt any one of the following.** [4]

   1.   Construct ΔMNP such that ι(NP) = 5.2 cm, m∠N = 70°, m∠P = 40°,

   2.   Find the smallest number which when divided by 8, 10, 12 and 14 gives a remainder of 5 every time.

      Solution : To find this multiple,

          we find the L. C. M. of the given divisors.

2	8	10	12	14
2	4	☐	6	☐
	☐	5	☐	7

∴ L. C. M. = 2 X 2 X 2 X 5 X 3 X ☐

          = ☐

To the L. C. M. we add the remainder obtained every time.

Hence that number = L. C. M. + remainder

          = ☐ + 5

          = ☐

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