



P.V.G.'s
Muktangan English School & Jr. College,
44, Vidyanagari, Parvati, Pune - 411009.
Formative Written Test - I (2025-26)
Standard - VII

Subject : Mathematics

Marks - 20

Date : 07.08.2025

Time : 9.45 am to 10.45 am

Q1. A) Fill in the blanks and rewrite the sentences. (2)

- 1) In a right-angled triangle, the side opposite to the right angle is called the _____.
- 2) _____ is the smallest prime number.

B) State whether the following statements are true or false and rewrite the statements. (2)

- 1) Two angles with equal measures are congruent to each other.
- 2) 1 is the HCF of any two consecutive even numbers.

Q2. Attempt any three of the following. (6)

- 1) Factorise 24 into prime numbers

$$\begin{aligned}\text{Solution : } 24 &= 2 \times \boxed{} \\ &= 2 \times 2 \times \boxed{} \\ &= 2 \times 2 \times \boxed{} \times \boxed{}\end{aligned}$$

- 2) Solve :
 - a) $(-72) \div (-8)$
 - b) $17 \times (-5)$
- 3) Draw an $\angle ABC$ of measure 60° and construct its bisector.
- 4) List the prime numbers from 11 to 20

Q3. Attempt any two of the following.

(6)

- 1) Write three divisions of integers such that the fractional form of each will be $\frac{3}{5}$
- 2) Construct $\triangle XYZ$ such that $\ell(XY) = 6\text{cm}$, $\ell(YZ) = 4\text{cm}$, $\ell(XZ) = 5\text{cm}$
- 3) The product of 2 digit numbers is 6860 and the GCD is 14. What is their LCM?

Solution: $\text{GCD} \times \boxed{} = \text{Product of given numbers}$

$$\boxed{} \times \text{LCM} = \boxed{}$$

$$\therefore \text{LCM} = \frac{\boxed{}}{\boxed{}}$$

$$\therefore \text{LCM} = \boxed{}$$

Q4. Attempt any one of the following.

(4)

- 1) Construct $\triangle ABC$ such that $\ell(AB) = 5\text{ cm}$, $m\angle CAB = 30^\circ$, $m\angle ABC = 100^\circ$
- 2) Reduce $\frac{209}{247}$ to its simplest form.

Solution: To reduce the number to its simplest form, we will find the common factors of 209 and 247

$$\begin{array}{r}
 209 \overline{) 247} \left(1 \right. \\
 \underline{209} \\
 38 \\
 209 \overline{) 38} \left(5 \right. \\
 \underline{190} \\
 190 \\
 209 \overline{) 190} \left(2 \right. \\
 \underline{38} \\
 38 \\
 \underline{38} \\
 00
 \end{array}$$

Here, $\boxed{}$ is the HCF. That is the numerator and denominator are both divisible by $\boxed{}$

$$\therefore \frac{209}{247} = \frac{209 \div 19}{247 \div 19} = \frac{\boxed{}}{\boxed{}}$$

