P.V.G.'s

# Muktangan English School & Jr. College,

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## Formative Written Test - I (2025-26)

## Standard - VIII

Subject : Mathematics | Marks - 20

Date : 11.08.2025 | Time : 8.30 am to 9.30 am

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

1) A pair of angles which are on the same side of the transversal and inside the given lines is called a pair of _____ angles.

2) $(3^4)^5 = 3^{\square}$

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

1) $-7 > -2$

2) $\left(\frac{3}{5}\right)^{-5} = \left(\frac{5}{3}\right)^{5}$

**Q 2. Attempt any 3 of the following subquestions :** **(6)**

1) Write the following numbers in the form of rational indices :

a) $5^{th}$ root of square of 74

b) Cube of $4^{th}$ root of 51.

2) Draw line p. Take a point T outside the line. Through point T draw a line parallel to line p.

3) Write the decimal form of $\frac{-133}{5}$ and state whether the decimal form is recurring or non-recurring.

4) Find the cube of (-0.2) by completing the activity below.

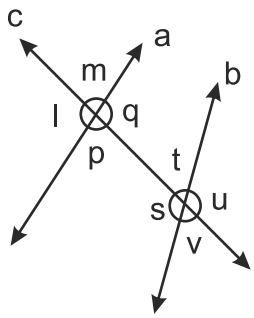
→ Solution :

$(-0.2)^{\square} = (-0.2) \times \square \times \square$

$\therefore (-0.2)^{\square} = \square$

**Q3. Attempt any two of the following subquestions.** **(6)**

i) Observe the adjoining figure in which each angle is shown by a letter. Fill in the boxes with the help of given figure:




a) Pairs of corresponding angles:

1) $\angle$q and ☐

2) $\angle$l and ☐

b) Pairs of interior angles:

1) $\angle$p and ☐

2) $\angle$q and ☐

c) Pairs of interior alternate angles:

1) $\angle$q and ☐

2) $\angle$p and ☐

ii) Show the following rational numbers on the same number line :

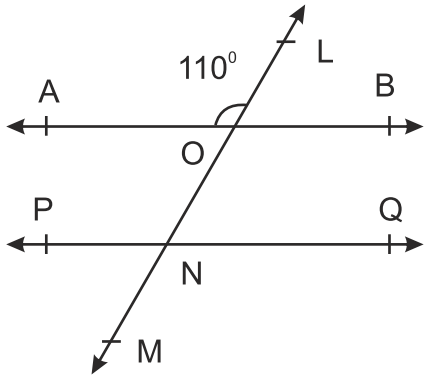
$\frac{8}{5}, \frac{-3}{5}, \frac{6}{5}, \frac{-7}{5}$

iii) Compare the following rational numbers by stating the rule.

$\frac{-25}{8}, \frac{-9}{7}$

**Q4. Attempt any one of the following subquestions :** **(4)**

i) In the adjoining figure,
line AB $\parallel$ line PQ.
Line LM is a transversal.
If m $\angle$ AOL = $110^0$, then
find m $\angle$ ONQ




ii) Find the cube root of 1728 by using prime factorisation method.

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