

First Term Evaluation 2025

Standard: VI – Mathematics (English Medium) Model question paper

Time: 2 Hours

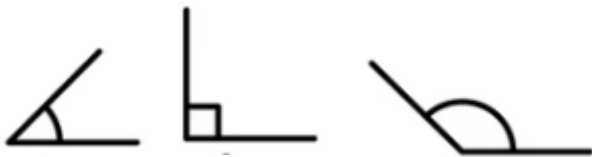
Cool-off time: 15 Minutes

Instructions:

- Read the questions carefully.
 - Attempt any 6 activities out of 8.
 - Each activity carries 5 marks.
 - Total marks: 30
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Activity 1: Measuring Angles at Home

While decorating her room, Ammu made a pattern using strips forming different angles.



- Identify the largest angle in the figure.
 - Which angle is a right angle?
 - Draw a 60° angle using a protractor.
 - Can two angles of 45° and 135° form a straight angle when joined? Why?
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Activity 2: Sharing Apples

A basket has $3\frac{3}{4}$ kg of apples. Neena and her two friends decide to share it equally.

- How many kilograms of apples does each get?
 - If one of them eats $\frac{2}{3}$ kg, how much is left with her?
 - Write $\frac{3}{4}$ in two equivalent forms.
 - Who gets more: someone with $\frac{2}{3}$ kg or someone with $\frac{3}{4}$ kg?
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Activity 3: Volume of a Pencil Box

A pencil box is shaped like a rectangular block with dimensions $20\text{ cm} \times 8\text{ cm} \times 3\text{ cm}$.

- Find its volume in cubic centimetres.
- If it is filled with pencils of volume 2 cm^3 each, how many can fit inside?

- c) If the box is made of plastic that costs ₹0.05 per cm^3 , find the cost.
d) Can this box hold 1 litre of water? Justify your answer.
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Activity 4: Fraction Fun with Pizza

Ajay ordered a pizza and ate $\frac{1}{3}$ of it. His sister ate $\frac{1}{6}$ more.

- a) How much of the pizza was eaten altogether?
b) How much is left?
c) Write the total eaten as a single fraction in lowest terms.
d) Represent the leftover part as a shaded circle.
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Activity 5: Road Construction Data

A panchayat constructed roads in two phases: $1\frac{3}{4}$ km last month and $2\frac{2}{5}$ km this month.

- a) What is the total length of road constructed?
b) How much more road was built this month than last?
c) Express both lengths as improper fractions.
d) If the total plan was 5 km, how much more is left?
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Activity 6: Comparing Water Levels

Two tanks contain 2.5 litres and $3\frac{1}{4}$ litres of water respectively.

- a) Which tank contains more water?
b) How much more?
c) If $1\frac{1}{4}$ litres is added to the first tank, what is the new level?
d) Express the total water in both tanks together in simplest form.
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Activity 7: Milk Distribution

A milkman poured milk into three bottles: $\frac{3}{4}$ L, $1\frac{1}{3}$ L and $1\frac{1}{6}$ L.

- a) Find the total quantity of milk.
b) If he wants to fill a 4 L container, how much more milk is needed?
c) Write $1\frac{1}{3}$ as an improper fraction.
d) Out of the total, $\frac{2}{3}$ was distributed. How much is remaining?
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Activity 8: Fractions in Time

Aman spends $\frac{1}{5}$ of his day studying, $\frac{1}{3}$ sleeping, and $\frac{2}{15}$ playing.

- a) What fraction of the day is used in these three activities?
- b) How much of the day is left?
- c) Write all fractions with a common denominator.
- d) Is the remaining time more or less than what he spends playing?

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