

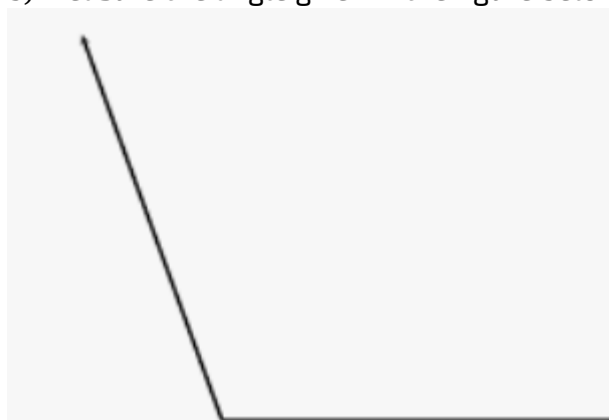
Class VI – First Term Evaluation 2025  
MATHEMATICS (English Medium) Model paper  
Time: 2 Hours

General Instructions

- Read the questions carefully.
- Attempt any 6 activities out of 8.
- Each activity carries 5 marks.
- Total marks: 30

Activity 1: Geometry – Angles and Measurement

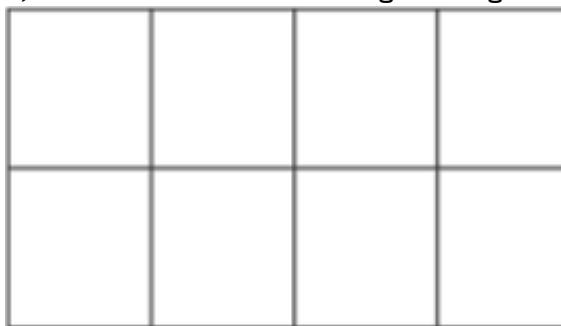
- a) Draw an angle of  $67^\circ$  using a protractor.
- b) Measure the angle given in the figure below and name its type (Acute, Right, Obtuse):



- c) Using a ruler and protractor, draw a triangle with angles  $50^\circ$ ,  $60^\circ$ , and  $70^\circ$ . Label each angle clearly.
- d) List two real-life objects where you can see a right angle.
- e) If a clock shows the time as 3:00, what angle do the hands make? Show steps.

## Activity 2: Fractions and Their Applications

a) Shade  $\frac{3}{8}$  of the following rectangle.



b) Simplify the following fractions:

i.  $\frac{16}{24} = \underline{\hspace{2cm}}$

ii.  $\frac{45}{60} = \underline{\hspace{2cm}}$

c) If a pizza is cut equally among 6 friends and 2 pieces remain, what fraction is left?

d) Add:  $\frac{2}{5} + \frac{3}{10} = \underline{\hspace{2cm}}$

e) Arrange in ascending order:  $\frac{1}{2}$ ,  $\frac{3}{8}$ ,  $\frac{2}{3}$

f) Andy walks  $\frac{3}{4}$  km in the morning and  $\frac{2}{5}$  km in the evening. How much more did he walk in the morning?

## Activity 3: Measurement – Volume and Capacity (16 Marks)

a) Find the volume of a box with length 8 cm, width 4 cm, height 5 cm.

b) If a vessel holds 1.5 litres of water, how many millilitres is this? Show the conversion.

c) A container can hold 1000 cubic centimetres. If filled with cubes of  $1\text{ cm}^3$ , how many cubes are needed?

d) Use cubes to model an irregular shape of volume  $9\text{ cm}^3$ . Draw the shape.

e) Rani pours 500 ml of juice into 4 cups equally. How much does each cup get?

## Activity 4: Shapes and Drawing (16 Marks)

a) Draw and name a polygon with five sides. Label all its sides.

b) Using a set square, construct an equilateral triangle. Mark all sides.

c) Write two properties each for rectangles and parallelograms.

d) Draw a circle and mark its diameter and radius.

## Activity 5: Application and Word Problems (16 Marks)

a) The school garden is in the shape of a rectangle with a length of 15 m and a width of 8 m.

- i) What is its perimeter?
- ii) What is its area?
- b) A tank is filled with 6.5 litres of water. 3.2 litres are used.  
How much water is left in the tank?
- c) The class teacher distributed  $2\frac{1}{2}$  kg of clay equally among 5 students.  
How much did each get? (Answer in fractions)
- d) A rope is  $7\frac{3}{4}$  metres long. If  $3\frac{1}{3}$  metres is cut off, how much rope remains?

Activity 6: C: Volume and Measurement

- a). Find the volume of a box with dimensions  $5\text{ cm} \times 3\text{ cm} \times 2\text{ cm}$ .
- b) If a jug holds 2 litres of water, how many millilitres is that?
- c). A shape is formed by combining a cube of side 3 cm and a cube of side 2 cm. Find the total volume.

Activity 7:

A farmer divides his field into 4 equal parts and plants crops in 3 parts. If the total area of the field is 100 square metres, what is the area used for crops?

Activity 8:

A shopkeeper has a 2-litre bottle of oil. He sells 750 ml to one customer and 500 ml to another. How much oil is left in the bottle (in millilitres)?