

matt — ANSWER KEY (Not for Students)

CLASS TEST | Mathematics | First Term — 2025-2026 | Duration: 60 minutes | Total Marks: 32

Instructions: helloth vgfdh

ANSWER KEY

- 1.** Use a ruler and compasses to construct an angle of 60° at a point on a line segment. Describe your steps.
- 2.** Construct an angle of 90° at point P on line AB. Then bisect this angle to obtain 45° . List the steps.
- 3.** Construct an angle of 120° using a pair of compasses. Verify your construction with a protractor. Describe the process.
- 4.** Construct an angle of 75° by first constructing 90° and then 60° and bisecting the difference. Explain your steps.
- 5.** Draw a line segment $AB = 8$ cm. Construct its perpendicular bisector. Label the midpoint M. What is AM?
- 6.** Construct a triangle ABC with $AB = 6$ cm
- 7.** Construct an equilateral triangle with side length 5 cm. What is the measure of each angle?
- 8.** Construct a right-angled triangle with hypotenuse 10 cm and one leg 6 cm. What is the length of the other leg?
- 9.** Construct an isosceles triangle PQR with $PQ = PR = 7$ cm and base $QR = 5$ cm. Measure the base angles.
- 10.** Draw a circle of radius 3 cm. Construct two chords and then construct their perpendicular bisectors. Where do they intersect?
- 11.** Construct a circle of radius 4 cm. Inscribe a regular hexagon inside it. Describe your steps.
- 12.** Construct a triangle ABC. Bisect angles A and B. Label the intersection point I. Measure the distance from I to side AB. What is point I called?
- 13.** Construct a square of side 6 cm. Draw both diagonals. What is the length of each diagonal?
- 14.** Construct a rectangle with length 8 cm and width 5 cm. Calculate its perimeter and area.
- 15.** Construct a parallelogram PQRS with $PQ = 7$ cm
- 16.** On a Cartesian plane

- 17.** Plot triangle P(1
- 18.** Plot triangle A(1
- 19.** Plot triangle X(1
- 20.** On a Cartesian plane
- 21.** On a graph
- 22.** Draw a distance-time graph for the following: A car travels 20 km in 30 min
- 23.** Draw a pie chart to represent the following data: Food = GH¢120
- 24.** Draw a bar chart for the following test scores: 10-20 (3 students)
- 25.** Draw a stem-and-leaf plot for the data: 25
- 26.** The diagram shows two parallel lines cut by a transversal. Angle 1 = 70° . Find angles 2
- 27.** In triangle ABC
- 28.** The diagram shows a circle with centre O. Radius = 7 cm. Calculate the circumference and area. (Use $\pi = 22/7$)
- 29.** The diagram shows a right-angled triangle with legs 6 cm and 8 cm. Use Pythagoras theorem to find the hypotenuse. Draw the triangle.
- 30.** The graph shows the line $y = 2x + 1$. From the graph
- 31.** The graph shows two lines: $y = -x + 5$ and $y = x - 1$. From the graph
- 32.** Draw a Venn diagram showing two sets A and B with $A \cap B = \{3$