

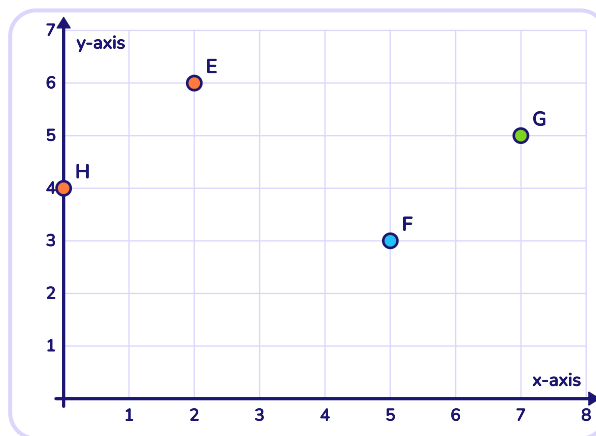
Geometry and the Coordinate Plane: math test, Grade 5 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 The coordinate plane

/ 4 pts

Use the figure.



- Write the ordered pairs of E, F, G and H. (2 points)
- Which point is on the y-axis? (1 point)
- How many units above the x-axis is F? (1 point)

2 The scout hike

/ 4 pts

A scout walks from camp $(1, 1)$ to the river $(1, 6)$, then to the ridge $(5, 6)$, then to the cabin $(5, 2)$. Each unit is half a mile.

- How many units is each of the three parts? (1.5 points)
- How many miles does she walk in all? (1 point)
- Which parts are parallel? Which parts are perpendicular? (1.5 points)

3 Name the quadrilateral

/ 4 pts

Give the most specific name for each quadrilateral. (1 point each)

- 4 equal sides and no right angle.
- 4 equal sides and 4 right angles.
- Exactly one pair of parallel sides.
- Opposite sides parallel and equal, adjacent sides 8 cm and 3 cm, no right angle.

4 Classify the triangles

/ 3 pts

Name each triangle by its sides and by its angles. (1 point each)

- Sides 4 cm, 4 cm, 4 cm; all angles smaller than 90° .
- Sides 3 cm, 4 cm, 5 cm; one angle of 90° .
- Sides 5 cm, 5 cm, 8 cm; one angle of about 106° .

5 True or false?

/ 3 pts

Say whether each sentence is true or false and justify. (1 point each)

- a. Every square is a rhombus.
- b. Every rectangle is a square.
- c. A parallelogram can have exactly one pair of parallel sides.

6 Lines on the grid

/ 2 pts

Segment AB goes from $(1, 2)$ to $(6, 2)$. Segment CD goes from $(3, 2)$ to $(3, 7)$. Segment EF goes from $(1, 5)$ to $(6, 5)$.

- a. Are AB and CD parallel or perpendicular? Why? (1 point)
- b. Are AB and EF parallel or perpendicular? Why? (1 point)



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