

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

Test solutions with the detailed point scale. Add up your points and spot what to review.

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

1 The coordinate plane

/ 4 pts

- a. E (2, 6), F (5, 3), G (7, 5), H (0, 4). (0.5 pt each, 2 pts)
- b. H, because its first number is 0. (1 pt)
- c. F is 3 units above the x-axis, because its second number is 3. (1 pt)

2 The scout hike

/ 4 pts

- a. Camp to river: $6 - 1 = 5$ units. River to ridge: $5 - 1 = 4$ units. Ridge to cabin: $6 - 2 = 4$ units. (0.5 pt each, 1.5 pts)
- b. $5 + 4 + 4 = 13$ units, and $13 \times 0.5 = 6.5$ miles. (1 pt)
- c. The first and third parts are both vertical, so they are parallel. (0.5 pt) The second part is horizontal, so it is perpendicular to each of the other two. (1 pt)

3 Name the quadrilateral

/ 4 pts

- a. Rhombus. (1 pt)
- b. Square. (1 pt)
- c. Trapezoid. (1 pt)
- d. Parallelogram. (1 pt)

4 Classify the triangles

/ 3 pts

- a. Equilateral and acute. (1 pt)
- b. Scalene and right. (1 pt)
- c. Isosceles and obtuse. (1 pt)

5 True or false?

/ 3 pts

- a. True: a square has 4 equal sides. (1 pt)
- b. False: a rectangle with sides 6 cm and 2 cm is not a square. (1 pt)
- c. False: a parallelogram always has two pairs of parallel sides. (1 pt)

6 Lines on the grid

/ 2 pts

- a. AB is horizontal and CD is vertical, so they are perpendicular. (1 pt)
- b. AB and EF are both horizontal, so they are parallel. (1 pt)



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