Steady Steps Maths

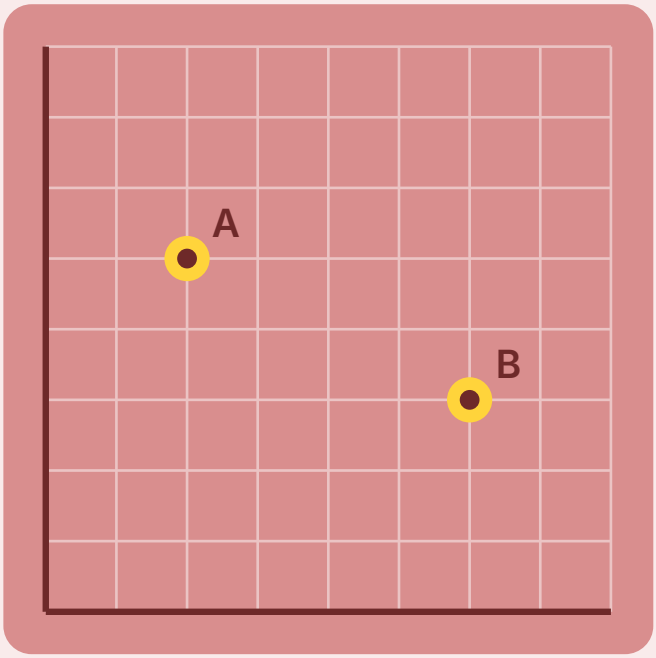
FREE SAMPLE WORKSHEET · TOPIC 10

FREE SAMPLE

Coordinate Plane & Shapes

Free sample worksheet · with answers

GRADE 5



A (2, 5)

B (6, 3)

Common Core 5.G.A.1–2, 5.OA.B.3, 5.G.B.3–4

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Quick recap

The big idea from each pack in this topic. Read it first, then try the questions.

Learn it · Pack 1 · The coordinate plane

(x, y): go across x, then up y, starting at (0, 0).

(6, 1) is 6 across and 1 up.

Learn it · Pack 2 · Patterns & graphs

Two rules make two patterns; matching terms make ordered pairs.

add 1: 0, 1, 2 add 4: 0, 4, 8 → (0, 0), (1, 4), (2, 8)

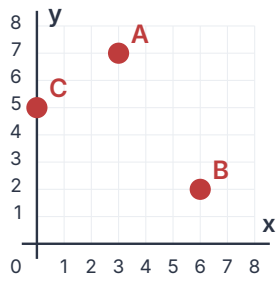
Learn it · Pack 3 · Classifying shapes

A shape has every property of the groups above it.

Every square is a rectangle and a rhombus.

PACK 1 The Coordinate Plane

1 Use the grid. Write the coordinates of A.



Answer _____

2 Use the grid in question 1. Write the coordinates of B.

Answer _____

3 Use the grid in question 1. Point C is on which axis?

Answer _____

4 How many units apart are (4, 2) and (4, 9)?

Answer _____

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5 Which point is 2 right and 6 up from (1, 1)?

Answer

6 A rectangle has corners (1, 2), (5, 2), (5, 6). Where is the fourth?

Answer

PACK 2 Patterns & Graphs

7 Write five terms: start at 0, add 7.

Answer

8 A: add 3; B: add 9 (both from 0). Compare the terms.

Answer

9 Write three ordered pairs for x: add 1, y: add 5 (both from 0).

Answer

10 A graph has points (0, 0), (1, 2), (2, 4). What is the next point?

Answer

11 For the points in question 10, how does y compare with x?

Answer

12 If that pattern carries on, what is y when x is 9?

Answer

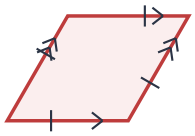
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PACK 3

Classifying 2D Shapes

13 Name the most exact name for this shape.



Answer

14 A rectangle is a parallelogram: always, sometimes or never?

Answer

15 A triangle has sides 5 cm, 5 cm, 5 cm. Name it by its sides.

Answer

16 A triangle has one angle of 110°. Name it by its angles.

Answer

Real life

Read carefully, then show your working

17 On a park map, the gate is at (2, 1), the pond at (2, 7) and the café at (8, 7). Walking along grid lines, how far is it (a) from the gate to the pond? (b) from the gate to the café, going past the pond?

Answer

18 A tile has 4 sides. Two pairs of sides are parallel, and it has 4 right angles, but its sides are not all equal.
(a) What is its most exact name? (b) Name one other group it belongs to.

Answer

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Answer key

For parents · check the steps as well as the final answer

Pack 1	**1)** (3, 7) **2)** (6, 2) **3)** the y-axis **4)** 7 units **5)** A (3, 7) **6)** (1, 6)
Pack 2	**7)** 0, 7, 14, 21, 28 **8)** each B term is 3 times the A term **9)** (0, 0), (1, 5), (2, 10) **10)** (3, 6) **11)** y is 2 times x **12)** 18
Pack 3	**13)** rhombus **14)** always **15)** equilateral **16)** obtuse
Real life	**17)** (a) 6 units (b) 12 units **18)** (a) rectangle (b) parallelogram (or quadrilateral)

Tip: Across first, then up: (3, 7) and (7, 3) are different points.

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Enjoyed this sample?

This sheet has 18 questions. The full topic has 119, plus 10 unit tests.

Everything a Grade 5 student needs on the coordinate plane and 2D shapes: reading and plotting points in the first quadrant, distances along grid lines, two number patterns graphed as ordered pairs, and classifying quadrilaterals and triangles by their properties.

What you get	What's inside	Questions
Pack 1 · The Coordinate Plane	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 5.G.A.1–2	46
Pack 2 · Patterns & Graphs	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 5.OA.B.3	34
Pack 3 · Classifying 2D Shapes	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 5.G.B.3–4	39
Complete Topic book	All 3 packs in one book with a contents page	119
10 Unit Tests (A–J)	40 marks each, about 40 minutes, with a mark scheme and a "what to revise" table. **Test A is free.**	18 per test

How to use this sample

1. Let your child read the recap page and try the questions on their own.
2. Mark together with the answer key. Each section shows which pack it comes from.
3. If a section felt hard, that pack is the place to start. If it all felt easy, try the free Unit Test A.

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