Steady Steps Maths

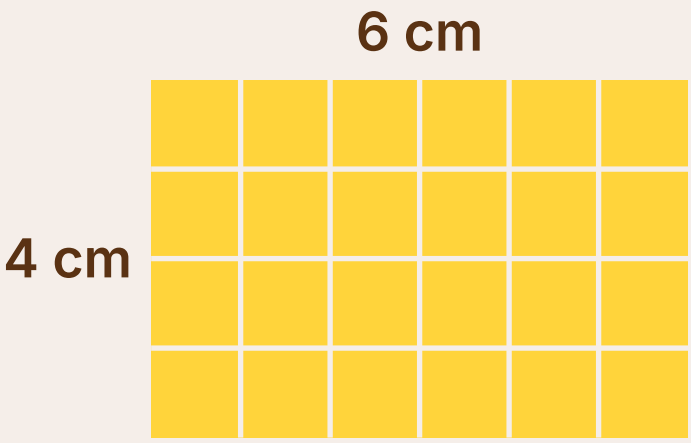
FREE SAMPLE WORKSHEET · TOPIC 9

FREE SAMPLE

Area

Free sample worksheet · with answers

GRADE 3



6 × 4 = 24 sq cm

Common Core 3.MD.C.5–7

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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 · Understanding area

Area is the space inside a shape, counted in unit squares.

A shape covered by 9 unit squares has an area of **9 square units**.

Learn it · Pack 2 · Area of rectangles

Multiply the side lengths.

A rectangle 6 cm by 3 cm: 6 × 3 = **18 sq cm**.

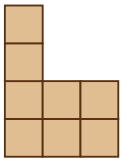
Learn it · Pack 3 · Combined shapes

Split into rectangles, find each area, then add.

4 × 2 = 8 and 3 × 3 = 9, so the area is **17 sq m**.

PACK 1 Understanding Area

1 What is the area of the shape in square units?



Answer

2 Better unit for the area of a desk top: sq cm or sq m?

Answer

3 A shape is covered by 4 rows of 3 unit squares. What is its area?

Answer

4 Which is bigger: 10 unit squares or 2 rows of 6 unit squares?

Answer

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5 A shape has an area of 6 square units. Could it be a rectangle 2 squares by 3 squares?

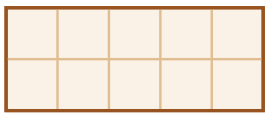
Answer

6 Two shapes look different but both cover 7 squares. Is their area the same?

Answer

PACK 2 Area of Rectangles

7 Write a multiplication for the area.



2 cm

5 cm

Answer

8 Find the area of a rectangle 8 m by 4 m.

Answer

9 A square has 7 cm sides. What is its area?

Answer

10 A rectangle has an area of 24 sq ft. One side is 3 ft. How long is the other side?

Answer

11 Use 5 × 9 = (5 × 5) + (5 × 4) to find the area of a 5 cm by 9 cm rectangle.

Answer

12 How many 1 sq m tiles cover a floor 6 m by 5 m?

Answer

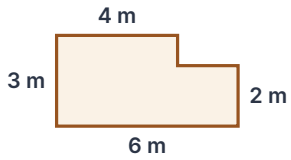
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PACK 3

Area of Combined Shapes

13 Find the area of the shape.



Answer

14 A shape is a 5 cm by 3 cm rectangle joined to a 2 cm by 4 cm rectangle. Find its area.

Answer

15 An L-shape is split into a 7 m by 2 m rectangle and a 5 m by 3 m rectangle. What is its area?

Answer

16 A 7 m by 4 m garden has a 2 m by 2 m pond. What area is not pond?

Answer

Real life

Read carefully, then show your working

17 A bedroom floor is 5 m by 4 m. A rug is 2 m by 1 m.
(a) What is the area of the floor? (b) How much floor is not covered by the rug?

Answer

18 A wall has 6 rows of tiles with 9 tiles in each row.
(a) How many tiles are there? (b) Each tile is 1 sq ft. What is the area?

Answer

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Answer key

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

Pack 1	**1)** 8 square units **2)** sq cm **3)** 12 square units **4)** 2 rows of 6 (12) **5)** yes (2 × 3 = 6) **6)** yes
Pack 2	**7)** 5 × 2 = 10 sq cm **8)** 32 sq m **9)** 49 sq cm **10)** 8 ft **11)** 25 + 20 = 45 sq cm **12)** 30 tiles
Pack 3	**13)** 4 × 3 + 2 × 2 = 16 sq m **14)** 15 + 8 = 23 sq cm **15)** 14 + 15 = 29 sq m **16)** 28 − 4 = 24 sq m
Real life	**17)** (a) 20 sq m (b) 18 sq m **18)** (a) 54 tiles (b) 54 sq ft

Tip: Area is always in square units (sq cm, sq m). Any correct way of splitting a shape gives the same total.

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Enjoyed this sample?

This sheet has 18 questions. The full topic has 108, plus 10 unit tests.

Everything a Grade 3 student needs on area: unit squares and square units, counting squares, area of rectangles by tiling and by multiplying the side lengths, area models for the break-apart rule, and the area of shapes made from rectangles.

What you get	What's inside	Questions
Pack 1 · Understanding Area	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 3.MD.C.5–6	35
Pack 2 · Area of Rectangles	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 3.MD.C.7a–c	40
Pack 3 · Area of Combined Shapes	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 3.MD.C.7d	33
Complete Topic book	All 3 packs in one book with a contents page	108
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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