Splitting Shapes

MathApex

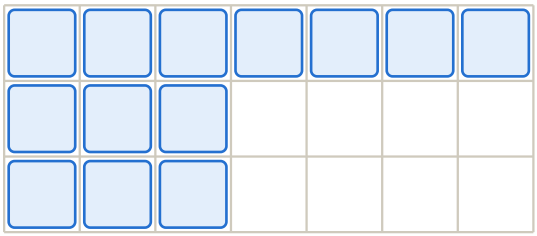
Name: _____ Date: _____

Watch video

From the video Break the shape apart: 2 by 2 squares and 3 by 1 squares → **4 + 3 = 7 squares**

1 Now it's your turn!

3 by 3 squares and 4 by 1 squares: how many in all?

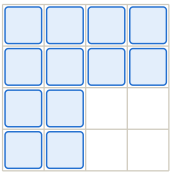


Break the shape into a square and a strip.

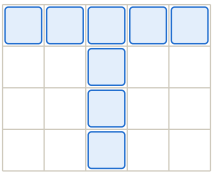
☐ + ☐ = ☐ squares

2 Break apart and count.

How many squares does each shape have?



☐ + ☐ = ☐ squares



☐ + ☐ = ☐ squares

3 Without squares.

There are no squares to help you now. Calculate with the side lengths.



☐ × ☐ = ☐ cm²

4 Words only.

a) A rectangle is 9 cm long and 3 cm wide. What is the area?

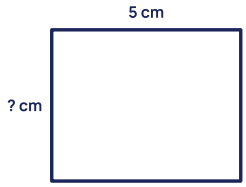
☐ × ☐ = ☐ cm²

b) A square has a side length of 3 cm. What is its area?

☐ × ☐ = ☐ cm²

5 Think backwards.

The rectangle has an area of **20 cm²** and is 5 cm long. How wide is it?



20 ÷ 5 = ☐ cm

Brain teaser

A rectangle is twice as long as it is wide. It is 2 cm wide. What is its area?

6 Draw two different rectangles with an area of 16 cm² each.

Write the calculation next to them.

MathApex

MATH STORY 64 · ANSWERS

Splitting Shapes

Watch video

1 Now it's your turn!

9 + 4 = 13 squares

3 × 3 = 9 and 4 × 1 = 4.

2 Break apart and count.

4 × 2 + 2 × 2 = 12 squares

5 × 1 + 1 × 3 = 8 squares

3 Without squares.

8 × 2 = 16 cm²

4 Words only.

9 × 3 = 27 cm²

3 × 3 = 9 cm²

5 Think backwards.

20 ÷ 5 = 4 cm

Check: 5 × 4 = 20 cm²

★ Brain teaser

4 × 2 = 8 cm²

Length 4 cm, width 2 cm.

6 Rectangles with 16 cm².

16 × 1 = 16 cm² 8 × 2 = 16 cm² 4 × 4 = 16 cm²

For parents and teachers: This worksheet goes with the video "Splitting Shapes" (Math Story 64, Grade 4). The rectangles with squares are printed at actual size: 1 square = 1 cm². Children may count first and then calculate.

More Math Stories with video and worksheet: **www.mathapex.app/en/math-stories/**