LESSON MAKER PRO

Rectangle Area Puzzle

Split shapes, then add the areas.

GRADE 3 · NY-3.MD.7.d

NY-3.MD.7.d "Recognize area as additive. Find areas of figures composed of non-overlapping rectangles, and apply this technique to solve real world problems."

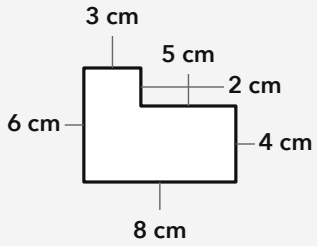
NAME _____ DATE _____

ADD RECTANGLE AREAS

Split a composite shape into rectangles that do not overlap. Find each rectangle's area by multiplying, then add the areas.

WORKED EXAMPLE

Find the area of the figure.



1. Split it into a bottom rectangle and a top rectangle.
2. Bottom area: 8 × 4 = 32 square cm.
3. Top area: 3 × 2 = 6 square cm.
4. Add: 32 + 6 = 38 square cm.

Answer: 38 square cm

PRACTICE 4 problems

1 A shape has two non-overlapping rectangles. One is 7 cm by 9 cm. The other is 10 cm by 7 cm. Find the total area.

ANSWER _____

2 Two non-overlapping rectangles make a shape. Their sizes are 11 cm by 7 cm and 9 cm by 10 cm. Find the area.

ANSWER _____

3 Find the area of a shape made from a 12 cm by 7 cm rectangle and a 9 cm by 9 cm rectangle. The rectangles do not overlap.

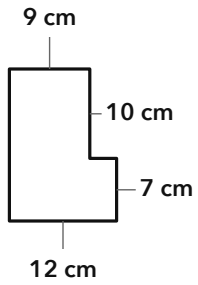
ANSWER _____

4 A composite shape has a 10 cm by 10 cm rectangle and an 11 cm by 9 cm rectangle. They do not overlap. Find the area.

ANSWER _____

APPLY IT Show your work

1 A garden is shaped like the figure. What is the garden's area?



ANSWER _____

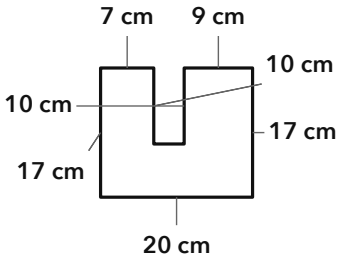
2 A reading nook has two non-overlapping rugs. One rug is 11 cm by 12 cm. The other is 7 cm by 10 cm. What area do the rugs cover altogether?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The patio has a notch. Find its area. Show how you split it into rectangles.



WORK SPACE AND ANSWER

ANSWER KEY

Rectangle Area Puzzle

GRADE 3 · NY-3.MD.7.d

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A shape has two non-overlapping rectangles. One is 7 cm by 9 cm. The other is 10 cm by 7 cm. Find the total area.	**133 square cm**
2	Two non-overlapping rectangles make a shape. Their sizes are 11 cm by 7 cm and 9 cm by 10 cm. Find the area.	**167 square cm**
3	Find the area of a shape made from a 12 cm by 7 cm rectangle and a 9 cm by 9 cm rectangle. The rectangles do not overlap.	**165 square cm**
4	A composite shape has a 10 cm by 10 cm rectangle and an 11 cm by 9 cm rectangle. They do not overlap. Find the area.	**199 square cm**

PART 2 · APPLY IT

1. **174 square cm** Split the garden into a 12 cm by 7 cm rectangle and a 9 cm by 10 cm rectangle. Add 84 and 90.
2. **202 square cm** Find each rug's area: 11 × 12 = 132 and 7 × 10 = 70. Add 132 + 70.

CHALLENGE

300 square cm; 20 × 7 + 7 × 10 + 9 × 10 = 300

Accept any correct split into non-overlapping rectangles. Accept square centimeters written as square cm or cm².