Name _____ Date _____ Period _____

LESSON 5-4 · WARM-UP

Warm-Up Practice

Apply Area Concepts to Solve Problems

THE MOVE

what this page practices

Find each piece's area, then add or subtract

Work out the area of each rectangle or triangle on its own. Add the pieces that are joined. Subtract the piece that was cut out.

One part's area × the number of identical parts

When a shape splits into identical pieces, find one piece's area and multiply by how many there are.

WORKED MODEL

we do this one together

Step 1	A 10 unit by 6 unit rectangle has a 3 unit by 2 unit square cut out of it.
Step 2	Whole rectangle: 10 × 6 = _____ square units
Step 3	Square removed: 3 × 2 = _____ square units
Step 4	Area left = 60 − 6 = _____ square units

YOUR TURN

8 items · about 10 minutes

1. A 12 cm by 5 cm rectangle has a 4 cm by 3 cm rectangle cut out. The area left = _____

ANSWER _____

2. A 9 in by 8 in rectangle has a 2 in by 2 in square cut out. The area left = _____

ANSWER _____

3. A 7 m by 4 m rectangle and a 5 m by 4 m rectangle are joined edge to edge. Total area = _____

ANSWER _____

4. A 10 ft by 6 ft rectangle has a triangle of base 6 ft and height 4 ft joined to one end. Total area = _____

ANSWER _____

5. A regular hexagon splits into 6 identical triangles, each 15 square inches. Area = _____

ANSWER _____

6. A regular pentagon splits into 5 identical triangles, each with base 8 cm and height 6 cm. Area = _____

ANSWER _____

7. A regular octagon has an area of 96 square meters and splits into 8 identical triangles. One triangle's area = _____

ANSWER _____

8. A garden is a 12 m by 8 m rectangle with a triangle of base 12 m and height 5 m attached to one end. Total area = _____

ANSWER _____