

Areas of Parallelograms

Lesson 5-2

DATE _____

TIME _____

For Problems 1–3, cut out Parallelograms A–C on *Math Masters*, page 208.

DO NOT CUT OUT THE ONES BELOW.



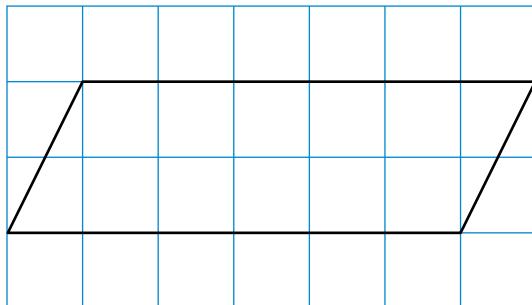
1 cm²

Cut each parallelogram into two pieces so that it can be made into a rectangle.

Draw line segments on Parallelograms A and B below to show their heights.

1 Parallelogram A

Tape your rectangle in the space below.



Base = _____

Length = _____

Height = _____

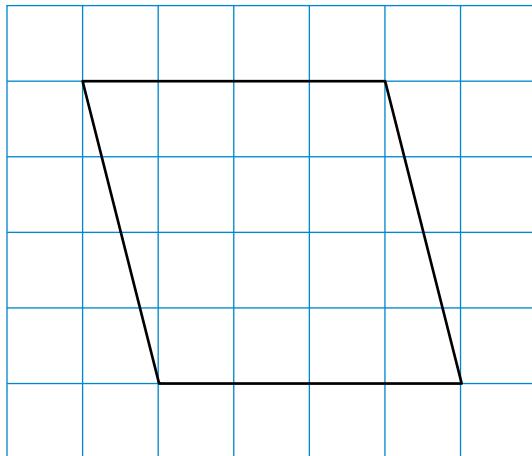
Width (height) = _____

Area of parallelogram = _____

Area of rectangle = _____

2 Parallelogram B

Tape your rectangle in the space below.



Base = _____

Length = _____

Height = _____

Width (height) = _____

Area of parallelogram = _____

Area of rectangle = _____

Areas of Parallelograms (continued)

Lesson 5-2

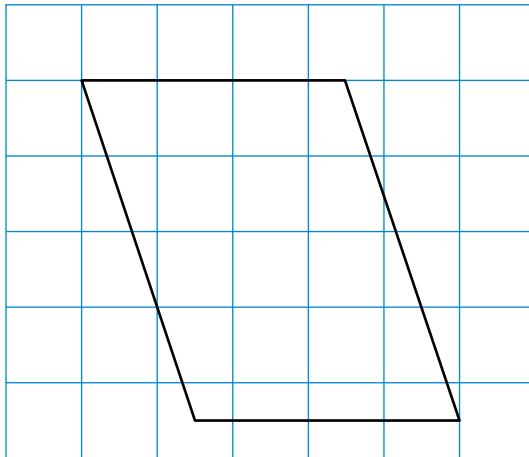
DATE _____

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- 3 Draw a line segment outside Parallelogram C to show its height.

Parallelogram C

Tape your rectangle in the space below.



Base = _____

Length = _____

Height = _____

Width (height) = _____

Area of parallelogram = _____

Area of rectangle = _____

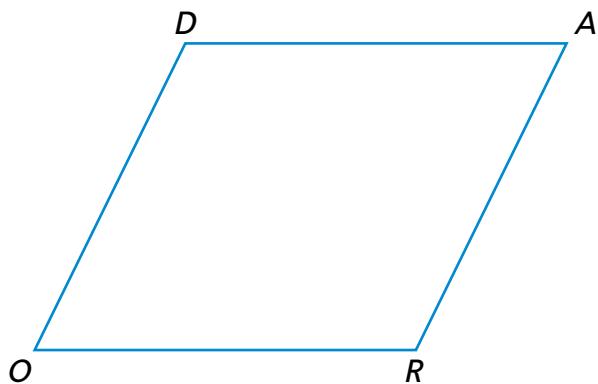
- 4

a. Look for patterns in Problems 1–3. Use the patterns you find to write a formula for the area of a parallelogram.

b. Use your formula to find the area of parallelogram DORA.

Use your ruler to measure where needed.

Draw on and label the parallelogram to show what you measured.



Area of parallelogram DORA _____

c. Explain how you used the formula to find the area for parallelogram DORA.

Areas of Parallelograms (continued)

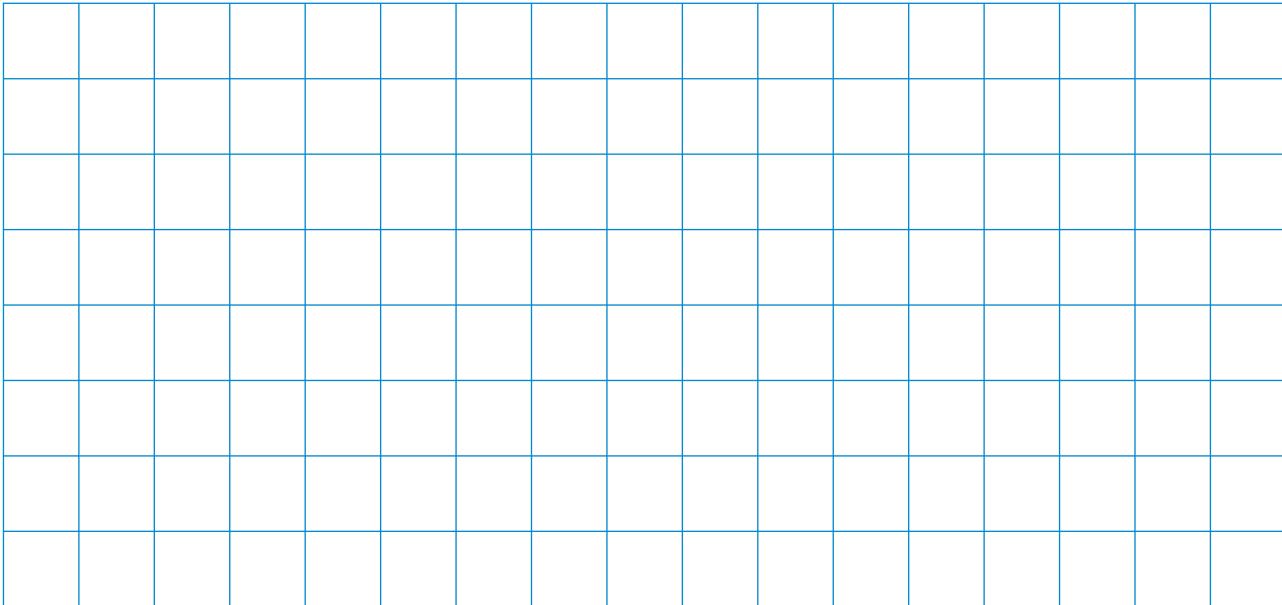
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- 5 For Parts a, b, and c, draw the polygon on the grid and label the height (h) and base (b):

- A rectangle whose area is 12 cm^2
- A parallelogram that is not a rectangle and has an area of 12 cm^2
- A different nonrectangular parallelogram with an area of 12 cm^2



Try This

- 6 Draw three parallelograms that have the same base and the same area but different perimeters.

