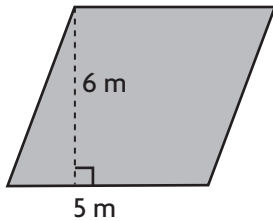


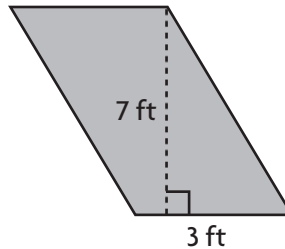
Algebra: Area of Parallelograms

Find the area of each parallelogram.

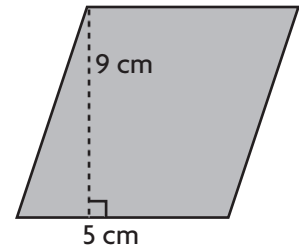
1.



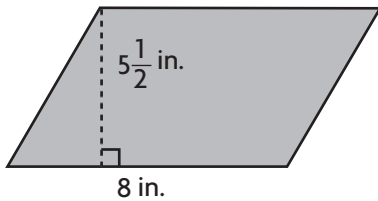
2.



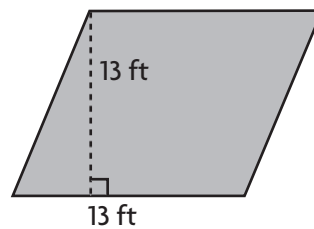
3.



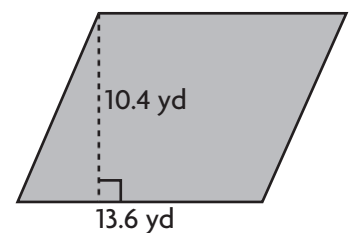
4.



5.



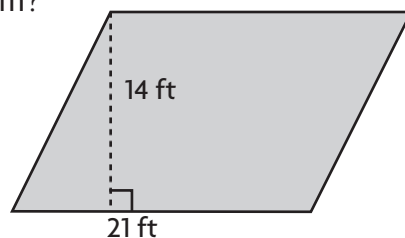
6.



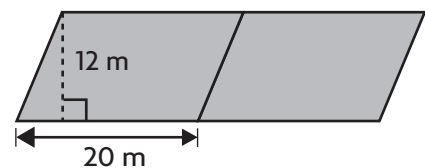
Problem Solving and Test Prep

7. A yard is shaped like a parallelogram with a base of 27 m and a height of 30 m. What is the area of the yard?
8. A parallelogram has a length of 15 cm and a height of 20 cm. It is divided into two congruent triangles. What is the area of each triangle?
9. What is the area of the parallelogram?

- A 300 ft^2
 B 70 ft^2
 C 294 ft^2
 D 147 ft^2



10. A playground is divided into two equal parallelograms. What is the area of the entire playground? Show your work.



Name _____ **Lesson 24.5**

Algebra: Area of Parallelograms

Find the area of each parallelogram.

① **30 m²**

② **21 ft²**

③ **45 cm²**

④ **44 in.²**

⑤ **169 ft²**

⑥ **141.44 yd²**

Problem Solving and Test Prep

⑦ A yard is shaped like a parallelogram with a base of 27 m and a height of 30 m. What is the area of the yard?
810 m²

⑧ A parallelogram has a length of 15 cm and a height of 20 cm. It is divided into two congruent triangles. What is the area of each triangle?
150 cm²

9. What is the area of the parallelogram?
A 300 ft²
B 70 ft²
C 294 ft²
D 147 ft²

⑩ A playground is divided into two equal parallelograms. What is the area of the entire playground? Show your work.
480 m²

Circled problems are suggested homework problems.

PW157 Practice © Harcourt • Grade 5

Name _____ **Lesson 24.6**

Problem Solving Workshop Strategy: Solve a Simpler Problem

Problem Solving Strategy Practice

Solve.

① Jane designed the figure below as a sun catcher. What is the area of the figure?
120 in.²

② Luke made his sun catcher into a rocket catcher. What is the area of the rocket?
223 cm²

Mixed Strategy Practice

USE DATA For 3–4, use the diagram.

③ Chris designed his sun catcher to the right into an airplane. What is the area of Chris' airplane?
157 cm²

④ Chris bought the materials for the sun catcher. He paid \$1.50 each for each rectangle, \$2.25 for each triangle, \$1.75 for each parallelogram, \$3.00 for stain and 3 feet of chain for \$4.50 a foot. How much did Chris spend in all?
\$23.75

⑤ Joy made a sun catcher with alternating blue and red squares. She began with a blue square. The sun catcher has 9 rows of 5 squares each. How many squares of each color are there?
23 blue; 22 red

Circled problems are suggested homework problems.

PW158 Practice © Harcourt • Grade 5

Lesson 24.5	
Item	Suggested rationale
1	find area of parallelogram using area formula
2	find area of parallelogram using area formula
3	find area of parallelogram using area formula
4	find area of parallelogram using area formula
5	find area of parallelogram using area formula
6	find area of parallelogram using area formula
7	find area of parallelogram using area formula to solve word problem
10	find area of parallelogram using area formula to solve word problem in test prep format

Lesson 24.6	
Item	Suggested rationale
1	find area of figure using simpler problem strategy
2	find area of figure using simpler problem strategy
3	find area of figure using simpler problem strategy to solve word problem
4	use diagram and simpler problem strategy to solve word problem
5	use diagram and simpler problem strategy to solve word problem