Name_____ Date_____ Period_____

LESSON 5-1 · SESSION 1 · PRACTICE · FORM A

Area of Parallelograms

Learning target – I can find the area of a parallelogram by multiplying the base by the perpendicular height. · 6.G.A.1

REMEMBER

- Area of a parallelogram: **A = b × h**.
- The **height** makes a square corner with the base. The slanted side is not the height.
- Missing measure: divide the area by the one you know (90 ÷ 18 = 5). Label **square units**.

WORKED EXAMPLE

Base 9 in., height 4 in., slanted side 5 in. Find the area.

Step 1 Base = 9 in., height = 4 in.

Step 2 Skip the 5 in. slanted side.

Step 3 A = 9 × 4 = 36

Answer **36 in²**

WORDS **parallelogram** *(paralelogramo)* · **base** *(base)* · **height** *(altura)* · **perpendicular** *(perpendicular)*

PRACTICE

show your work · label units

1. Find the area of each parallelogram with base *b* and height *h*.

a. b = 18 cm, h = 7 cm ____

b. b = 12 in, h = 6 in ____

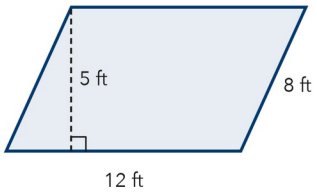
c. b = 11 ft, h = 7 ft ____

d. b = 25 m, h = 4 m ____

2. **School Banner.** A banner is a parallelogram.

a. Find the area. _____ ft²

b. Why is the 8 ft side not used?



3. **Floor Tile.** A tile has a base of 15 cm and a height of 10 cm.

a. Area of one tile _____ cm²

b. Area of 3 tiles _____ cm²

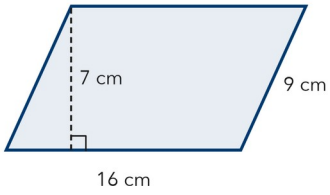
4. **Missing Height.** A sign has an area of 90 in² and a base of 18 in. Find its height.

Hint *What times 18 makes 90?*

Answer_____ in.

5. Paper Strip. Find the area of the paper strip.

Hint *Use the height with the square corner, not 9 cm.*



Show your work.

Answer_____ cm²

6. Window Pane. A window pane is a parallelogram. Its area is 96 in² and its base is 8 in. Find the height.

Hint *Divide the area by the base.*

Answer_____ in.

7. Two Panels. Panel X has base 10 cm and height 13 cm. Panel Y has base 26 cm and height 5 cm. Find each area. Which covers more space?

Hint *Find both areas, then compare.*

Show your work.

Areas_____

8. Hallway Mural. A mural is a parallelogram with a base of 15 ft and a height of 8 ft. One can of paint covers 50 ft².

a. Find the area. _____ ft²

b. How many cans are needed? Explain. _____

c. A second mural has the same height and double the base. Find its area. _____ ft²

Show your work.

FIND THE ERROR

explain the mistake, then fix it

9. Marisol's Work. A parallelogram has base 20 cm, slanted side 17 cm, and height 15 cm. Marisol wrote: "A = 20 × 17 = 340 cm²." Explain her mistake. Then find the area.

TEST PRACTICE

choose the best answer

10. A parallelogram has a base of 15 m and a height of 6 m. What is its area?

A 21 m² **B** 42 m² **C** 90 m² **D** 180 m²

11. A parallelogram has an area of 72 cm² and a height of 8 cm. What is its base?

A 9 cm **B** 64 cm **C** 80 cm **D** 576 cm

SELF-CHECK CODE

find your answer · copy its letter into that problem's box · spell a math word

12	144	112	96	120	150	60	5	130	768
R	X	A	Z	S	Q	S	U	E	J

#2a	#3a	#4	#5	#6	#7	#8a

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #___