Name_____ Date_____ Period_____

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

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 = 16 cm, h = 5 cm ____

b. b = 13 in, h = 4 in ____

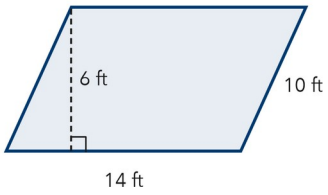
c. b = 9 ft, h = 8 ft ____

d. b = 30 m, h = 3 m ____

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

a. Find the area. _____ ft²

b. Why is the 10 ft side not used?



3. **Floor Tile.** A tile has a base of 12 cm and a height of 9 cm.

a. Area of one tile _____ cm²

b. Area of 3 tiles _____ cm²

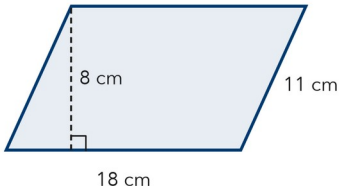
4. **Missing Height.** A sign has an area of 84 in² and a base of 12 in. Find its height.

Hint *What times 12 makes 84?*

Answer_____ in.

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

Hint *Use the height with the square corner, not 11 cm.*



Show your work.

Answer_____ cm²

6. Window Pane. A window pane is a parallelogram. Its area is 117 in² and its base is 9 in. Find the height.

Hint *Divide the area by the base.*

Answer_____ in.

7. Two Panels. Panel X has base 9 cm and height 14 cm. Panel Y has base 18 cm and height 7 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 20 ft and a height of 6 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. Deshawn's Work. A parallelogram has base 14 m, slanted side 10 m, and height 8 m. Deshawn wrote: "A = 14 × 10 = 140 m²." Explain his mistake. Then find the area.

TEST PRACTICE

choose the best answer

10. A parallelogram has a base of 25 ft and a height of 4 ft. What is its area?

A 29 ft² **B** 50 ft² **C** 100 ft² **D** 200 ft²

11. A parallelogram has an area of 63 m² and a base of 7 m. What is its height?

A 9 m **B** 56 m **C** 70 m **D** 441 m

SELF-CHECK CODE

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

84	1,053	7	108	13	120	198	144	140	126
H	X	I	E	H	S	Z	G	Q	T

#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 #___