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NAME

DATE

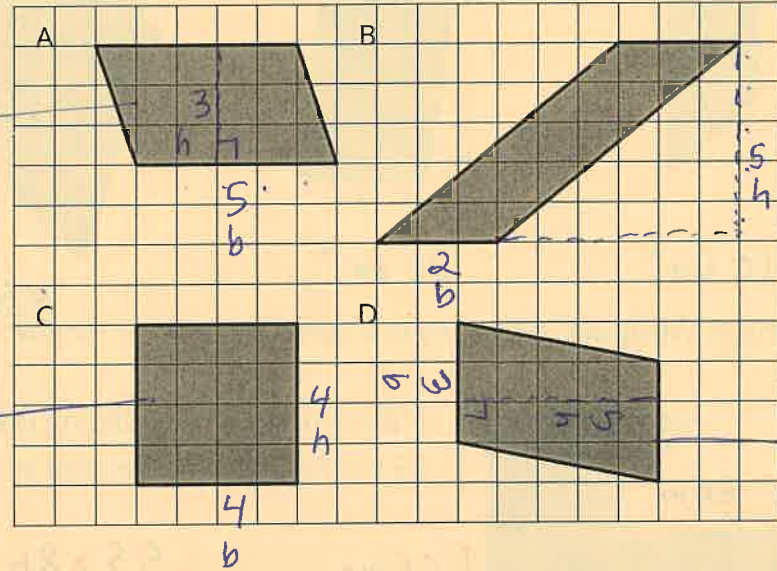
PERIOD

12

Unit 1, Lesson 6: Area of Parallelograms

1. Which three of these parallelograms have the same area as each other?

$5 \times 3 = 15 \text{un}^2$



$3 \times 5 = 15 \text{un}^2$

$4 \times 4 = 16 \text{un}^2$

$3 \times 5 = 15 \text{un}^2$

A + D + B

13

2. Which of the following pairs of base and height produces the greatest area? All measurements are in centimeters.

- A. $b = 4, h = 3.5$ 14un^2
- B. $b = 0.8, h = 20$ 16un^2
- C. $b = 6, h = 2.25$ 13.5un^2
- D. $b = 10, h = 1.4$ 14un^2

B is the greatest area

1

3. Here are the areas of three parallelograms. Use them to find the missing length (labeled with a "?") on each parallelogram. *Picture on back*

A: 10 square units

B: 21 square units

C: 25 square units

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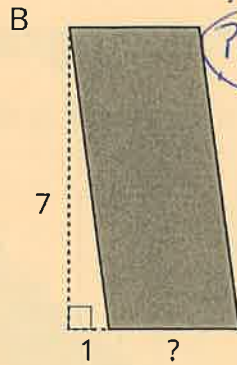
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$10 \text{ un}^2 = 5 \times ?$

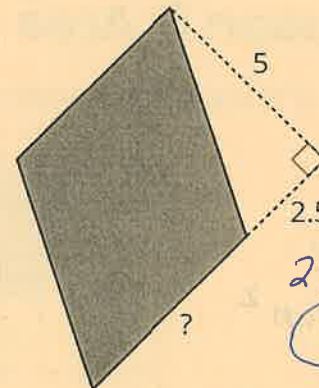
$? = 2 \text{ un}$



10 un^2

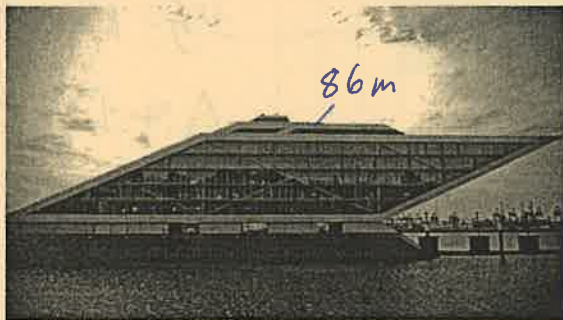


21 un^2



25 un^2

4. The Dockland Building in Hamburg, Germany is shaped like a parallelogram.



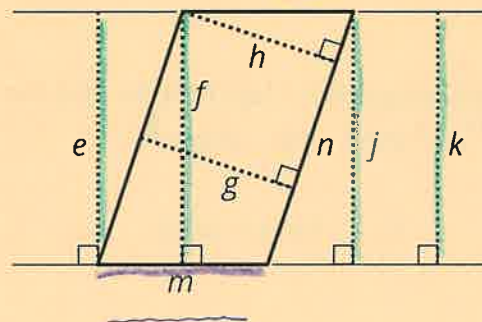
If the length of the building is 86 meters and its height is 55 meters, what is the area of this face of the building?

55m

$55 \times 86 = 4,730 \text{ m}^2$

5. Select **all** segments that could represent a corresponding height if the side m is the base.

have to be perpendicular to m so e, f, j, k



(from Unit 1, Lesson 5)

6. Find the area of the shaded region. All measurements are in centimeters. Show your reasoning. **Skip**