

NAME

DATE

PERIOD

## Unit 1, Lesson 10: Changing Scales in Scale Drawings

1. Here is a scale drawing of a swimming pool where 1 cm represents 1 m.



- How long and how wide is the actual swimming pool?
- Will a scale drawing where 1 cm represents 2 m be larger or smaller than this drawing?
- Make a scale drawing of the swimming pool where 1 cm represents 2 m.

2. A map of a park has a scale of 1 inch to 1,000 feet. Another map of the same park has a scale of 1 inch to 500 feet. Which map is larger? Explain or show your reasoning.

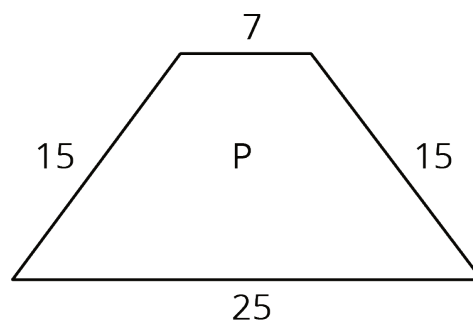
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3. On a map with a scale of 1 inch to 12 feet, the area of a restaurant is  $60 \text{ in}^2$ . Han says that the actual area of the restaurant is  $720 \text{ ft}^2$ . Do you agree or disagree? Explain your reasoning.

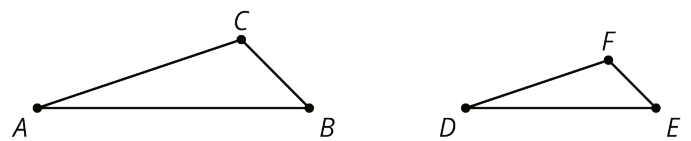
4. If Quadrilateral Q is a scaled copy of Quadrilateral P created with a scale factor of 3, what is the perimeter of Q?



(from Unit 1, Lesson 3)

5. Triangle  $DEF$  is a scaled copy of triangle  $ABC$ . For each of the following parts of triangle  $ABC$ , identify the corresponding part of triangle  $DEF$ .

- angle  $ABC$
- angle  $BCA$
- segment  $AC$
- segment  $BA$



(from Unit 1, Lesson 2)