

Lesson 10 Practice Problems

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

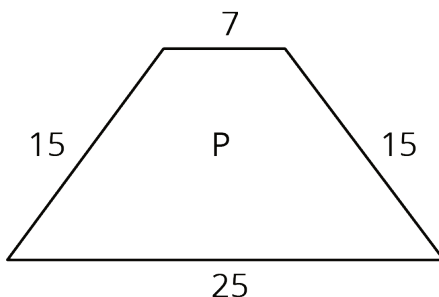


- How long and how wide is the actual swimming pool?
- Will a scale drawing where 1 cm represents 2 m be larger or smaller than this drawing?
- Make a scale drawing of the swimming pool where 1 cm represents 2 m.

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.

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

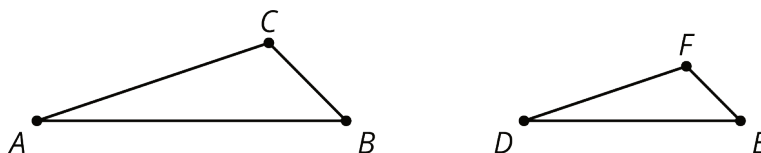
4. If Quadrilateral Q is a scaled copy of Quadrilateral P created with a scale factor of 3, what is the perimeter of Q ?



(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.)