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Unit 2, Lesson 4**Practice Problems**

1. A certain ceiling is made up of tiles. Every square meter of ceiling requires 10.75 tiles. Fill in the table with the missing values.

square meters of ceiling	number of tiles
1	
10	
	100
a	

2. On a flight from New York to London, an airplane travels at a constant speed. An equation relating the distance traveled in miles, d , to the number of hours flying, t , is $t = \frac{1}{500}d$. How long will it take the airplane to travel 800 miles?

3. Each table represents a proportional relationship. For each, find the constant of proportionality, and write an equation that represents the relationship.

s	P
2	8
3	12
5	20
10	40

Constant of proportionality:

Equation: $P =$

d	C
2	6.28
3	9.42
5	15.7
10	31.4

Constant of proportionality:

Equation: $C =$

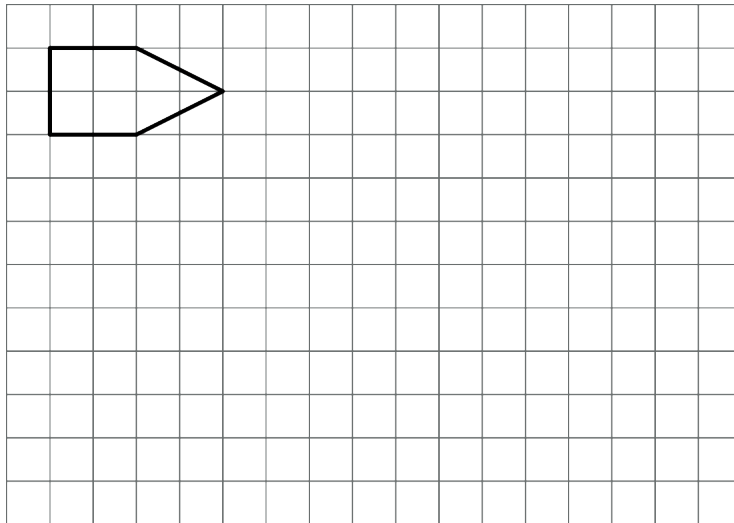
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4. A map of Colorado says that the scale is 1 inch to 20 miles or 1 to 1,267,200. Are these two ways of reporting the scale the same? Explain your reasoning.

5. Here is a polygon on a grid.



- a. Draw a scaled copy of the polygon using a scale factor of 3. Label the copy A.
- b. Draw a scaled copy of the polygon with a scale factor $\frac{1}{2}$. Label it B.
- c. Is Polygon A a scaled copy of Polygon B? If so, what is the scale factor that takes B to A?