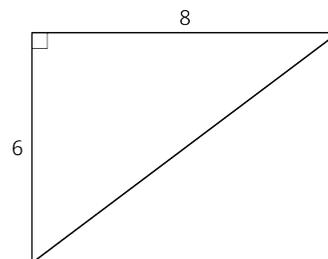
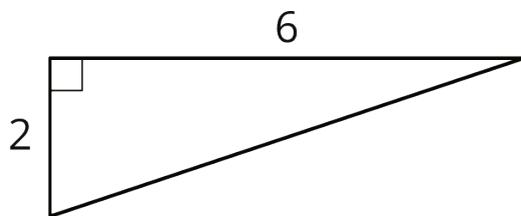
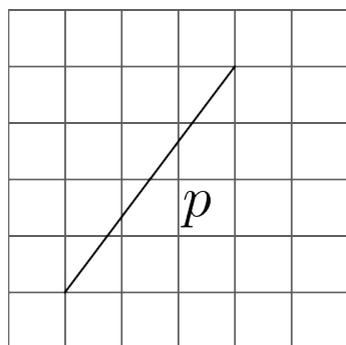
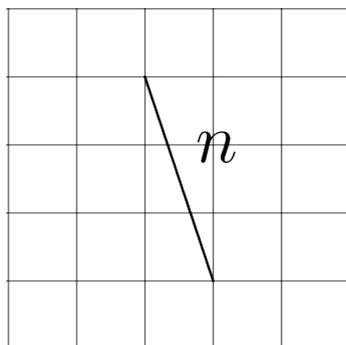


Lesson 6 Practice Problems

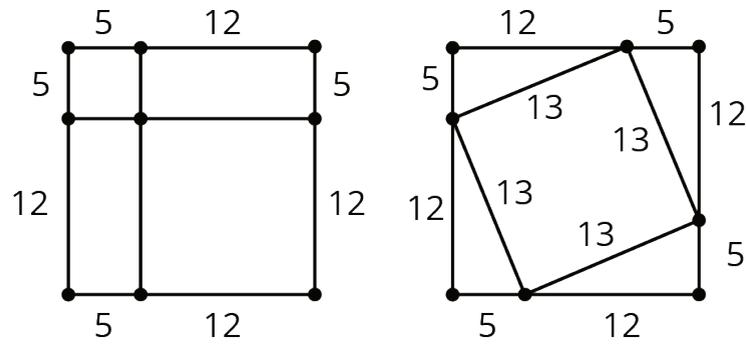
1. a. Find the lengths of the unlabeled sides.



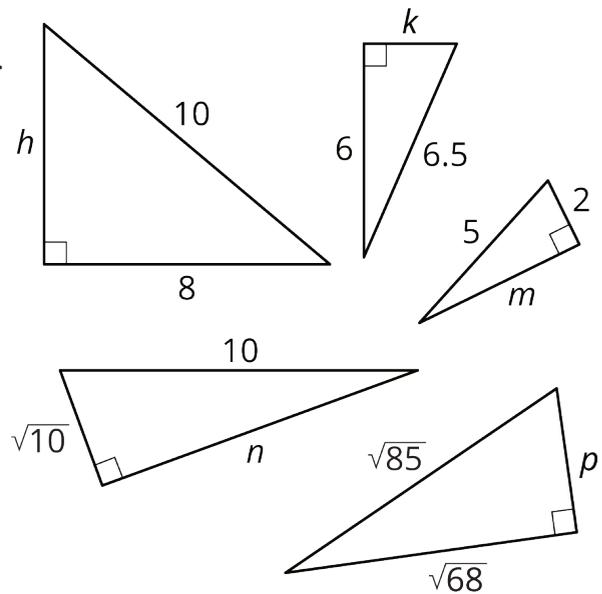
- b. One segment is n units long and the other is p units long. Find the value of n and p . (Each small grid square is 1 square unit.)



2. Use the areas of the two identical squares to explain why $5^2 + 12^2 = 13^2$ without doing any calculations.



3. Find the exact value of each variable that represents a side length in a right triangle.



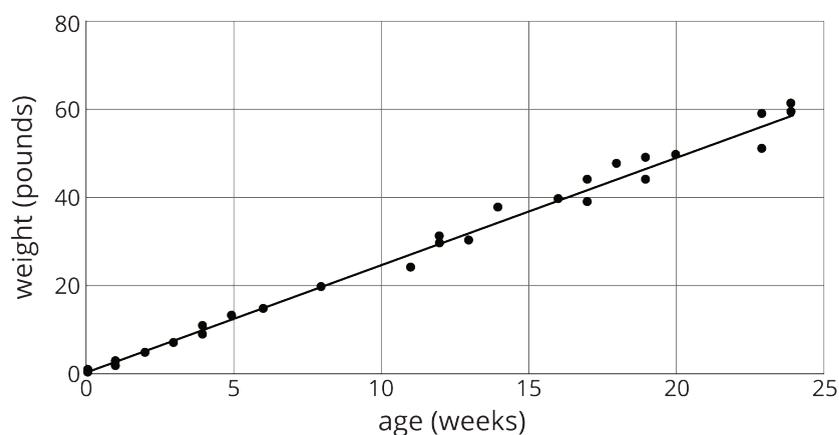
4. Write each expression as a single power of 10.

a. $10^5 \cdot 10^0$

b. $\frac{10^9}{10^0}$

(From Unit 7, Lesson 4.)

5. Here is a scatter plot of weight vs. age for different Dobermans. The model, represented by $y = 2.45x + 1.22$, is graphed with the scatter plot. Here, x represents age in weeks, and y represents weight in pounds.



a. What does the slope mean in this situation?

b. Based on this model, how heavy would you expect a newborn Doberman to be?

(From Unit 5, Lesson 21.)