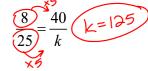
Do Now: Find the value of the variable.

1.)

$$\frac{x}{7} = \underbrace{\frac{x}{3}}_{1}$$



2.)



3.)



# 7.2 Writing and Solving Proportions

7.RP

- SWBAT write and solve proportions.
- SWBAT apply proper techniques to find measures.

Calculators: Yes

## **Cross Products Property**

The cross product of a proportion are equal

a.d = b.c

Solve the proportion.

1. 
$$\frac{n}{12} = \frac{3}{4}$$

2. 
$$\frac{50}{20} = \frac{z}{16}$$

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3. 
$$\frac{6.8}{15.4} = \frac{40.8}{10}$$

$$\frac{6.8}{15.4} = \frac{40.8}{100}$$

$$\frac{6.8}$$

Solve the proportion.

1. 
$$\frac{250}{30} = \frac{t}{51}$$

2. 
$$\frac{7.2}{4.8} = \frac{16.2}{z}$$

Solve the proportion.

2. 
$$\frac{9}{5} = \frac{36}{x-3}$$

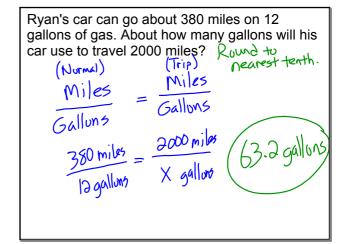
$$9(x-3) = 5(36)$$

$$9(x-3) = |80$$

$$+37 + 37$$

$$9x = 207$$

$$4 = 23$$



The dimensions of a **scale model** are proportional to the dimensions of the actual object.

The scale is written as a ratio.

Strawberry Point, Iowa, has a strawberry sculpture that is 15 feet tall. If the scale of this model is 10 feet to 1 inch, how tall was the actual strawberry?

An architecture draws a blueprint for the front of a townhouse. On the blueprint, the townhouse is 50 centimeters wide. If the scale of the blueprint is 1 centimeter to 0.5 meter, how wide is the front of the townhouse?

#### Exit Pass 7.2

Describe and correct the error in solving the proportion.

$$\frac{3}{9} = \frac{12}{m}$$

$$9m = 3 * 12$$

$$9m = 36$$

$$m = 4$$

"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the workbook.

Workbook pg.



#### **Reflection of Today's Lesson**

### 7.2 Writing and Solving Proportions

7.RP

- SWBAT write and solve proportions.
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Calculators: Yes

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