

January 22, 2015

5th
6th

Starter

1.

Day	Minutes for Mary to Reach School
Monday	39
Tuesday	28
Wednesday	26
Thursday	27
Friday	18

On which day did Mary reach school in the shortest amount of time? _____

How many minutes more did Mary take to reach school on Tuesday than on Thursday?

2. Which of these values is the greatest?

$$\frac{4}{5}, -17, 3, \frac{19}{6}$$

3. Of the choices below, what is the best estimate of the speed of a station wagon?

A 470 millimeters per hour

B 47 meters per hour

C 47 kilometers per hour

4. Write the number that balances the equation.

$$(23 \cdot 3)8 = 23(2 \cdot \underline{\hspace{2cm}})$$

5. Solve for the value of x .

$$3x - 10 = 41$$

FiMetro

1/22 Scale, Maps and Zooming using Proportions



Find the distance between Milton and Centerville if they are 4cm apart on a map with a scale of 2 cm : 5 km.

Scale

$$\begin{array}{l} \text{map} \\ \text{real} \end{array} \frac{2\text{cm}}{5\text{km}} = \frac{4\text{cm}}{x}$$

$$10\text{km} = x$$

Johnstown and Ashville are 20 mi from each other. How far apart would the cities be on a map that has a scale of 2 in : 5 mi?

$$\frac{x}{20\text{mi}} = \frac{42\text{in}}{4.5\text{mi}}$$
$$x = 8\text{in}$$

A model plane is 6 cm tall.
If it was built with a scale of 2 cm : 5 m, how tall is the real plane?

$$\frac{2 \text{ cm}}{5 \text{ m}} = \frac{6 \text{ cm}}{x}$$
$$15 \text{ m} = x$$



If a model motorcycle has a 1:18 scale, how long will the finished model be if the real motorcycle is 81 in?

$$\begin{array}{l} \text{model} \\ \text{real} \end{array} \frac{1 \cdot 81}{18 \cdot 81} = \frac{x \cdot 18}{81 \text{ in} \cdot 18}$$
$$\frac{81}{18} = \frac{18x}{18}$$
$$4.5'' = x$$



Amanda reduced the size of a photo to a height of 4 in. What is the new width if it was originally 12 in wide and 16 in tall?

$$\frac{W}{T} = \frac{12 \text{ in}}{16 \text{ in}} = \frac{4 \cdot X}{4 \cdot 4 \text{ in}}$$

$$\frac{12}{4} = \frac{4x}{4}$$
$$3 \text{ in} = x$$

A triangle is 2 in wide and 1 in tall. If it is enlarged to a width of 8 in, how tall will it be?

$$\frac{W}{T} = \frac{2 \text{ in}}{1 \text{ in}} = \frac{8 \text{ in}}{X}$$

$$4 \text{ in} = X$$

Daniel reduced the size of a photo to a width of **3 in** to turn it into a magnet for his locker. What is the new height of the photo was originally **8.4 in** tall and **18.6 in** wide?



Homework

Due