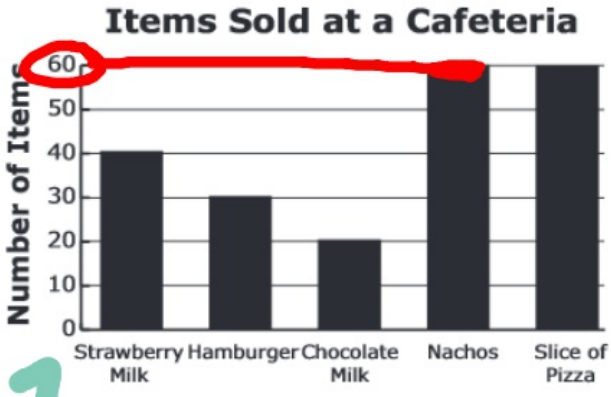
# January 20, 2015 4th
## Starter

**1.** The graph shows the number of lunch items sold at a school cafeteria in one day.




At this rate, how many nachos will be sold in 5 days? 300

**2.** Of the choices below, what is the best estimate of the length of a cell phone?

A 6 meters

B 6 centimeters

C 6 kilometers

B

**3.** Complete the sequence.

8, 24, 72, 216, 64

×3 ×3 ×3

**4.** Write <, >, or = in each blank.

$\frac{21}{24} \cdot \frac{10}{11}$ ___ $\frac{19}{21}$ ___ $\frac{10}{12}$

$\frac{210}{231}$ $\frac{209}{231}$ $\frac{228}{252}$ $\frac{210}{252}$

10

$\frac{4}{b} = \frac{2 \cdot 2}{2 \cdot 9}$

$b = 18$

# 1/15 - Proportions using Similar Figures

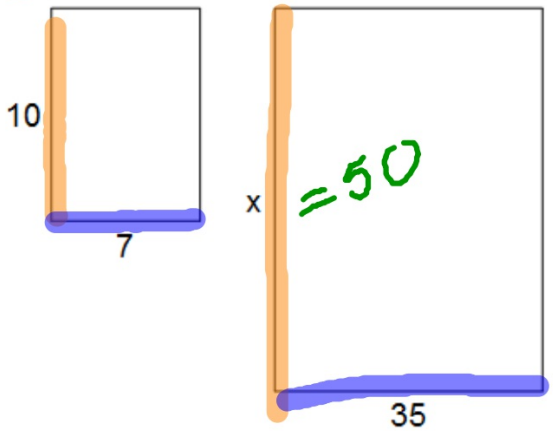
"Similar" means the figures...
- ~ have the same shape
- ~ can be different sizes
- ~ are proportional

Which of these moves result in similar shapes?

| Similar | NOT Similar |
| --- | --- |
| Slide | Horizontal Stretch |
| Zoom in | Vertical stretch |
| Zoom out | |
| Rotate | |
| Flip | |

If two figures are similar, you can find missing side measurements since they are proportional!

Find the missing measurement.

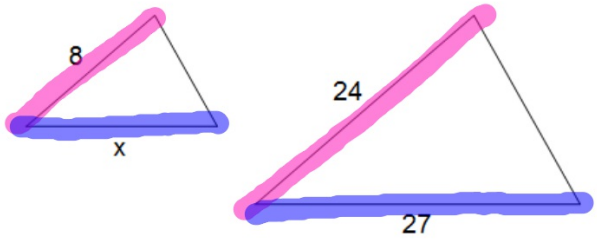



$$\frac{10}{7} = \frac{x}{35}$$

$$\frac{10 \cdot 5}{7 \cdot 5} = \frac{x}{35}$$

$$50 = x$$

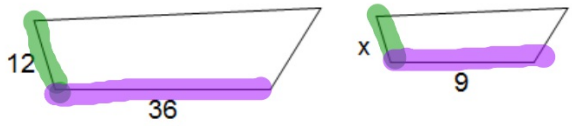
# Find the missing measurements of these similar figures.




$$\frac{8 \cdot 3}{x \cdot 3} = \frac{24}{27}$$

$$\frac{3x}{3} = \frac{27}{3}$$

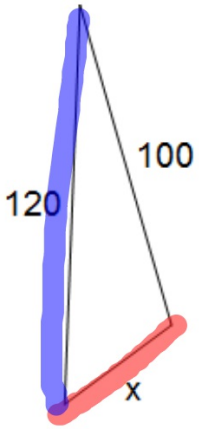
$$x = 9$$

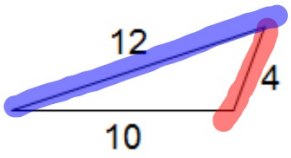



$$\frac{12}{36} = \frac{4 \cdot x}{4 \cdot 9}$$

$$\frac{12}{4} = \frac{4x}{4}$$

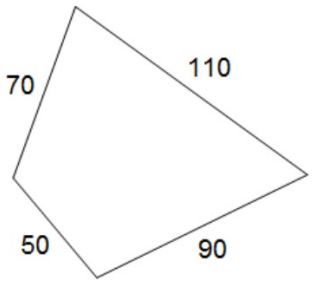
$$3 = x$$

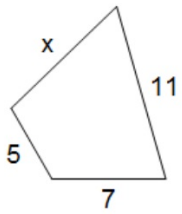



$$\frac{120}{x} = \frac{12}{10 \cdot 4}$$

$$x = 40$$



# Homework

Lime WS 2

# Due Thursday