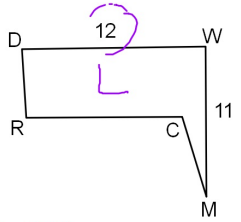
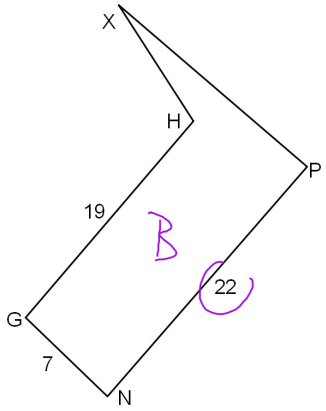
Algebra 1 Bellwork Friday, December 13, 2013

1. Find the length of DR and XP in the similar figures below



L

B/L



Find DR:

$\frac{7}{DR} = \frac{22}{12}$

3.82

Find XP:

$\frac{XP}{11} = \frac{22}{12}$

XP = 20.17

2. The scale on a drawing of a building is 4:75. If the drawing is 14 inches wide find the width of the building. Give your answer in feet.

$\frac{d}{A}$

$\frac{4}{75} = \frac{14}{x\text{ in}}$

$75(14) = 1050 / 4 =$

262.5 in

12

21.875 ft

3. Which is the best buy?

14 donuts for $11.25 or 16 donuts for $12.90

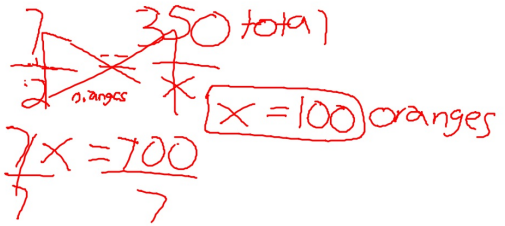
1.240

$\frac{14}{11.25} = 1.244 \frac{\text{donuts}}{\$}$

$\$11.25/14 = \$.80357/1\text{ donut}$

$\$12.90/16 = \$.80625/\text{donut}$

4. At the fruit market they have one section with just apples and oranges. The ratio of apples to oranges on one table is 5:2. If there are 350 pieces of fruit in that one section find out how many of them are oranges.



$x = 100$ oranges

$\frac{7x}{7} = \frac{700}{7}$