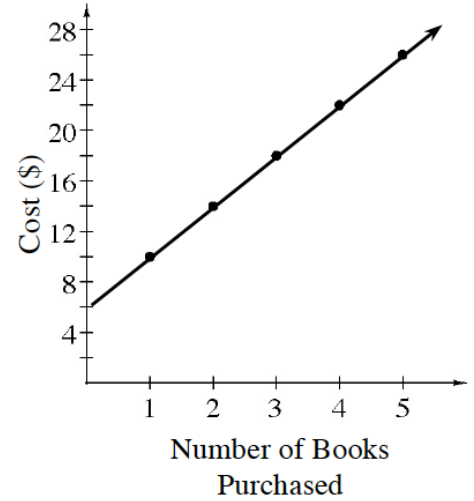**Pre-Algebra Homework 16 Quiz   First Name**_____ **Last** _____

1. Is the relationship shown in the graph at right proportional? *Explain.*

2. Make a portion web for each number:

$\dfrac{3}{5}$ $\qquad\qquad\qquad$ $\dfrac{4}{9}$ $\qquad\qquad$ 107%

3. Simplify each expression.

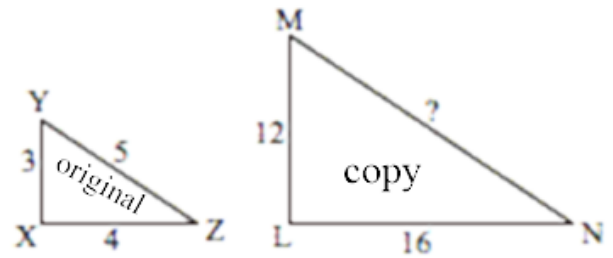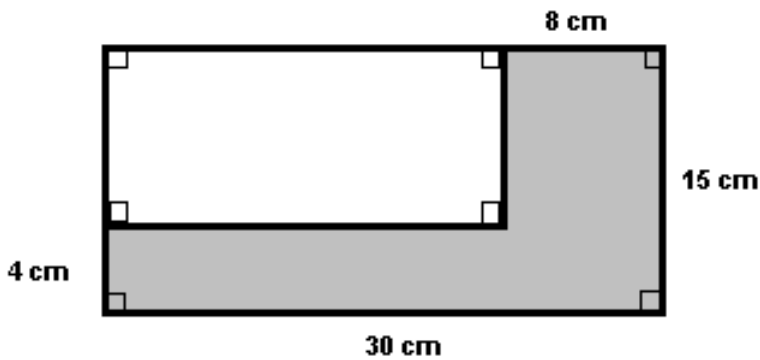**a)** $15.4 \div 0.02$ $\qquad\qquad\qquad$ **b)** $3.14 \cdot 0.15$

4. The triangles are similar.
a) What is the scale factor?
b) Find the length of the missing side on the copy.

5. Find the *shaded area.*

Answers on next page.

8 cm

15 cm

4 cm

30 cm

Answers

1. No

2.

$$\frac{3}{5}$$

60% △ 0.6   0.4$\overline{4}$ △ 44.$\overline{4}$%

$$\frac{4}{9}$$

1.07

$1\frac{7}{100}$ △ 107%

3. a) 770   b) 0.471

4. a) $\frac{4}{1}$ b) 20

5. 208 cm^2