

PR3 QUIZ A

1. Thara looked at the equation $\frac{6}{4} = \frac{9}{6}$ and said, "I rearrange the numbers $\frac{6}{9} = \frac{4}{6}$ and still have a true equation." Rearrange the numbers again to make another, different true equation.

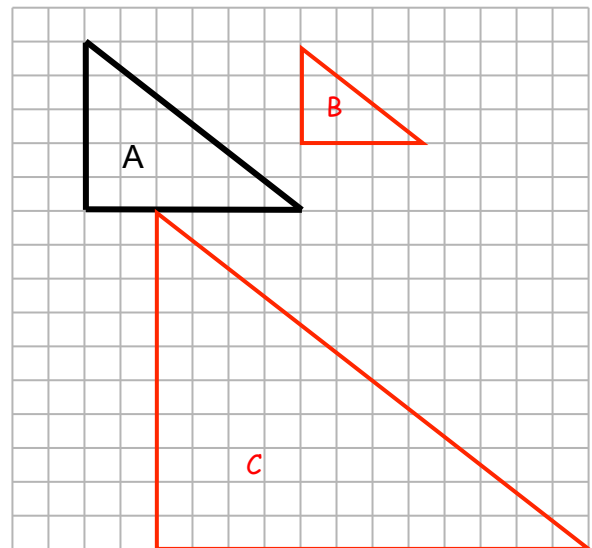
$\frac{4}{6} = \frac{6}{9}$ Answers may vary.

2. Solve each equation. Show your work or explain your thought process.

<p>a. $\frac{3}{5} = \frac{18}{x}$</p> <p style="text-align: center; color: red; font-weight: bold;">30</p>	<p>b. $\frac{6}{x} = \frac{15}{20}$</p> <p style="text-align: center; color: red; font-weight: bold;">10</p>
<p>c. $\frac{x}{8} = \frac{3}{5}$</p> <p style="text-align: center; color: red; font-weight: bold;">4.8</p>	<p>d. $\frac{6}{9} = \frac{x}{30}$</p> <p style="text-align: center; color: red; font-weight: bold;">20</p>

3. Use the grid and triangle to the right.

- a. Draw a scale drawing of the triangle using a scale factor of 1 : 2. Label the triangle B.
- b. Draw a scale drawing of the triangle using a scale factor of 2 : 1. Label the triangle C.



PR3 QUIZ A (Continued)

4. Store A sells almonds for \$7 per pound. Store B sells almonds for \$12 for 1.5 pounds. Complete the tables to show these relationships.

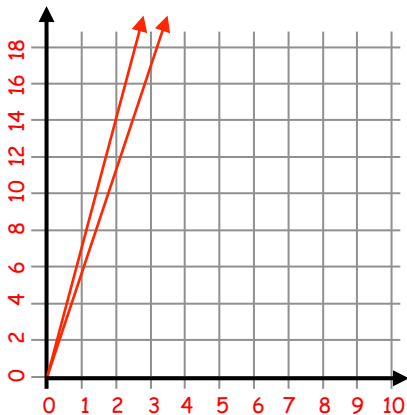
a. Complete the table to show the costs at Store A.

# of pounds (x)	Cost (y)
0	0
1	7
2	14
3	21

b. Complete the table to show the costs at Store B.

# of pounds (x)	Cost (y)
0	0
1	8
2	16
3	24

c. Graph the data for both stores. Label and scale the axes



d. Which store offers the better buy? Explain.

Store A has the better buy because it only costs \$7 per pound and Store B costs \$8 per pound.

e. What does the point (0, 0) represent for Store A?

It represents that when you buy 0 pounds it cost \$0.

5. Jenny biked 3 miles in 15 minutes. Use a table or a double number line to answer the following questions.

a. At that rate, how far could she go in 2 hours?

24 miles

b. At that rate, how long would it take her to go 15 miles?

75 minutes