

PR3 QUIZ B

1. Circle ALL equations for which $x = 5$ is a solution.

A. $\frac{1}{x} = \frac{12}{60}$

B. $\frac{x}{3} = \frac{25}{21}$

C. $\frac{x}{6} = \frac{12}{15}$

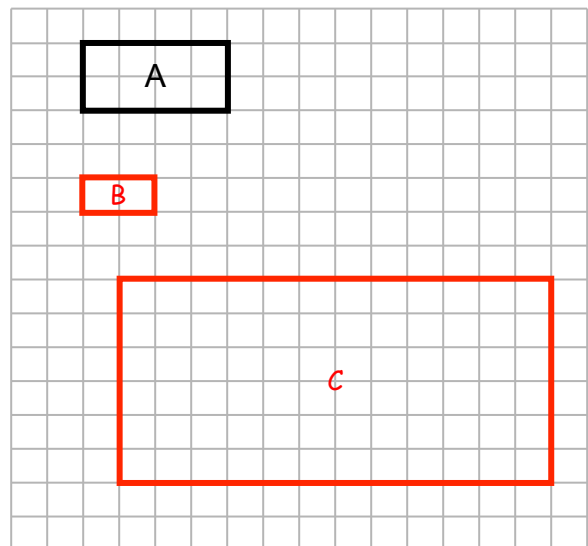
D. $\frac{10}{15} = \frac{x}{6}$

2. Solve each equation. Show work or explain your reasoning.

<p>a. $\frac{2}{3} = \frac{12}{x}$</p> <p style="text-align: center; color: red; font-weight: bold;">18</p>	<p>b. $\frac{4}{x} = \frac{5}{25}$</p> <p style="text-align: center; color: red; font-weight: bold;">20</p>
<p>c. $\frac{x}{8} = \frac{24}{64}$</p> <p style="text-align: center; color: red; font-weight: bold;">3</p>	<p>d. $\frac{2}{5} = \frac{x}{24}$</p> <p style="text-align: center; color: red; font-weight: bold;">9.6</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 3 : 1. Label the triangle C.



PR 3 QUIZ B (Continued)

4. Chris bought 3 pounds of cheese at Store A for \$6.75 and 5 pounds of cheese at Store B for \$12.50.

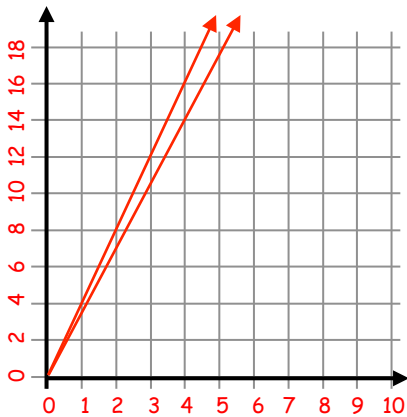
- a. Complete the table to show the costs at Store A.

# of pounds (x)	Cost (y)
0	0
1	2.25
2	4.50
3	6.75

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

# of pounds (x)	Cost (y)
0	0
1	2.50
2	5.00
3	7.50

- 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 cost \$2.25 per pound while Store B cost \$2.50 per pound.

- e. Using the graph, fill in the ordered pair (1, 2.25) for Store A. What does this point represent?

It represents the unit price.

5. A printer prints 3 pages per 5 seconds. Use a table or a double number line to answer the following questions.

- a. At that rate, how many pages can it print in 1 minute?

36 pages

- b. At that rate, how many minutes would it take her to print 180 pages?

5 minutes