Name: _____   Date: _____

Section 2.3 Extra Practice

Provide answers for #1 and #2 in your notebook.

1. Determine the unit rate. Include the units.
   a) It takes three hours to travel 240 km. **b)** Ten copies cost $1.20.
   c) Six classes have 168 students.   **d)** The plant grew 108 mm in nine days.

2. Write the operation and the number to use for solving the proportion.

   Examples: $\dfrac{5}{6} = \dfrac{x}{24}$ <u>Multiply</u> the numerator and denominator by <u>4</u>.

             $\dfrac{25}{15} = \dfrac{5}{t}$ <u>Divide</u> the numerator and denominator by <u>5</u>.

  a) $\dfrac{30}{40} = \dfrac{s}{120}$ **b)** $\dfrac{99}{44} = \dfrac{9}{r}$ **c)** $\dfrac{64}{8} = \dfrac{y}{2}$ **d)** $\dfrac{5}{16} = \dfrac{40}{x}$

3. Determine the value of each variable in #2.

  a) $s =$ _____   **b)** $r =$ _____   **c)** $y =$ _____   **d)** $x =$ _____

For #4 and #5:
a) *Set up a proportion using a variable (x).*
b) *Determine the value of the variable.*
c) *Write a concluding statement. Remember to include the units.*

Item	a) Proportion	b) Value	c) Statement
Example: 5 T-shirts cost $62.50. How much will 15 T-shirts cost?	$\dfrac{5}{62.5} = \dfrac{15}{x}$	$x = 187.5$	Fifteen T-shirts will cost $187.50.
4. The ratio of boys to girls at a music concert was 3 to 5. If there were 140 girls at the concert, how many boys were there?			
5. Three cups of flour are needed to make 48 pecan cookies. How many cookies will 5 cups of flour make?			