

Name: _____ Hour: _____ Date: _____

NOTES: Section 11.1 – Proportions

Goals: #1 - I can solve proportions using cross multiplication.



Homework: Section 11.1 Worksheet

Exploration #1: Work with a partner and answer the following questions.

1. Find the value of x that would make the following equivalent fractions.

a. $\frac{1}{2} = \frac{x}{8}$

b. $\frac{10}{x} = \frac{5}{6}$

c. $\frac{x}{9} = \frac{1}{3}$

Notes:

An equation that states that two _____ are equal is a _____.

Example:

If two _____ are equal, then their _____ are also equal.

Example:

To _____ proportions, we will _____.

Example #1: Solve the proportion.

1. $\frac{3}{y} = \frac{5}{8}$

2. $\frac{9}{4} = \frac{2c}{8}$

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Example #2: Solve the proportion.

1. $\frac{3}{x} = \frac{x+1}{4}$

2. $\frac{x+3}{x+5} = \frac{x-3}{-3}$

You practice: Solve the proportion.

1. $\frac{x}{4} = \frac{x-1}{x}$

2. $\frac{x}{-3} = \frac{3}{x+6}$