

## **Math Virtual Learning**

# Geometry/Honors Geometry Proportions

April 13, 2020



## Geometry/Honors Geometry Lesson: April 13, 2020

#### **Objective/Learning Target:**

Students will solve problems involving proportions.

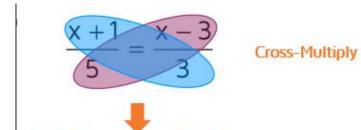
## Warm-Up:

Watch Video: Review Solving Equations

Watch Video: Solving Proportions

## **Examples:**

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$$3(x + 1) = 5(x - 3)$$

$$3x + 3 = 5x - 15$$
  
-3x +15 -3x +15

$$\frac{18}{2} = \frac{2x}{2}$$

Set the cross-products equal to each other.

Distribute the 3 and the 5.

Get all the variables on one side and all the constants on the other.

Divide both sides by 2 to get x by itself.

## **Practice:**

1) 
$$\frac{8}{9} = \frac{5z + 28}{29}$$

2) 
$$\frac{5}{7} = \frac{f+6}{3}$$

3) 
$$\frac{n}{4} = \frac{1}{16}$$

4) 
$$\frac{26}{6} = \frac{5}{r}$$

#### **Answer Key:**

Once you have completed the problems, check your answers here.

1) 
$$\frac{8}{9} = \frac{5z + 28}{29}$$

$$z = -0.44$$

$$\frac{5}{7} = \frac{f+6}{3}$$

$$f = -3.86$$

3) 
$$\frac{n}{4} = \frac{1}{16}$$

$$n = 0.25$$

4) 
$$\frac{26}{6} = \frac{5}{r}$$

$$r = 1.15$$

#### **Additional Practice:**

**Extra Practice with Answers** 

**Interactive Practice**