Math 6

UNIT 1 – Interactive Notebook

1-1 Ratios

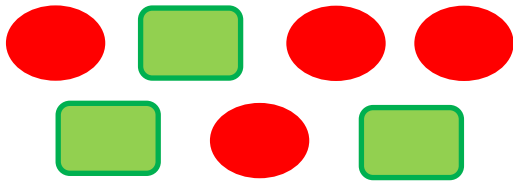| **Name:**		**Date:**	

Common Core Standards	CCSS.MATH.CONTENT.6.RP.A.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. *For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate C received nearly three votes."*

1-1 Ratios

What is the ratio of circles to squares?	**4:3**
What is the ratio of As to Bs? ABBBBABA BBBBBABB	**4:12**
What is the ratio of hearts to stars?	**3:7**

2

How do we know that ratios are EQUAL?

Example: Are the ratios 4:1 and 12:3 equal?

Step 1: Find the quotient of the numbers in the ratio.	$4 \div 1 = 4$ $12 \div 3 = 4$
Step 2: If the quotients are the **SAME**, then ratios are **EQUAL**!	$4 : 1 = 12 : 3$

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Give three equal ratios for the following.

3:2

4:1

Task Cards

Match the pink card with the blue card.

1.

The ratio of 1*s* to 8*s*.

188811
888188

a.

2:3

2.

Reduce to lowest term
24:32

b.

3:1

3.

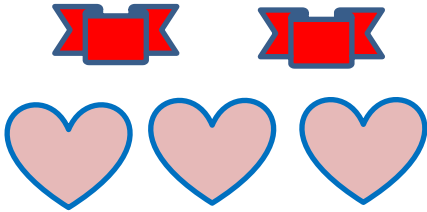**Equal ratio to 5:6**

c.

3:4

4.

In a neighborhood for every 6 old homes there were 9 new homes. What is the ratio of old homes to new homes?

d.

1:2

5.

The ratio of ribbons to hearts.

e.

15:18

6.

The ratio of Ms to Ns.

NNMN
NMNN

f.

2:1

7.	**g.**
Reduce to lowest term. **64:32**	**6:21**

8.	**h.**
Equal ratio to 2:7	**1:3**

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ANSWER KEY

Problem 1	**Answers may vary**
	6:4, 9:6, 12: 8… etc
Problem 2	**Answers may vary**
	8:2, 12:3, 16:4… etc

Task Cards

1.   **D**

2.   **C**

3.   **E**

4.   **H**

5.   **A**

6.   **B**

7.   **F**

8.   **G**