

Math 6

UNIT 1 – Interactive Notebook

1-1 Ratios

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

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| **Common Core Standards** | [CCSS.MATH.CONTENT.6.RP.A.1](http://www.corestandards.org/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. Ratios

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| What is the ratio of circles to squares? | **4:3** |
| What is the ratio of A*s* to B*s*?**ABBBBABA****BBBBBABB** | **4:12** |
| What is the ratio of hearts to stars? | **3:7** |

How do we know that ratios are EQUAL?

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

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

Give three equal ratios for the following.

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| **3:2** |  | **4:1** |  |  |
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Task Cards

Match the pink card with the blue card.

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| **1.** |
| **The ratio of 1*s* to 8*s*.****188811****888188** |

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| **a.** |
| **2:3** |

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| **2.** |
| **Reduce to lowest term****24:32** |

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| **b.** |
| **3:1** |

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| **3.** |
| **Equal ratio to****5:6** |

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| **c.** |
| **3:4** |

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| **4.** |
| **In a neighborhood for every 6 old homes there were 9 new homes. What is the ratio of old homes to new homes?** |

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| **d.** |
| **1:2** |

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| **5.** |
| **The ratio of ribbons to hearts.** |

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| **e.** |
| **15:18** |

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| **6.** |
| **The ratio of M*s* to N*s.*****NNMN****NMNN** |

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| **f.** |
| **2:1** |

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| **7.** |
| **Reduce to lowest term.****64:32** |

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| **g.** |
| **6:21** |

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| **8.** |
| **Equal ratio to****2:7** |

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| **h.** |
| **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** |
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|  | **Task Cards** |  |
|  | **1.**  | **D** |
|  | **2.** | **C** |
|  | **3.** | **E** |
|  | **4.** | **H** |
|  | **5.**  | **A** |
|  | **6.** | **B** |
|  | **7.** | **F** |
|  | **8.** | **G** |
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