

Math 6

UNIT 1 – Interactive Notebook

1-5 Proportions

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

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| **Common Core Standards** | [CCSS.MATH.CONTENT.6.RP.A.3](http://www.corestandards.org/Math/Content/6/RP/A/3/) Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.  [CCSS.MATH.CONTENT.6.RP.A.3.A](http://www.corestandards.org/Math/Content/6/RP/A/3/a/) Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios. |

1-5 Proportions

Solve Problems Using Proportion

|  |  |
| --- | --- |
| **Step 1** | Determine the relationship of the ratio in the given problem. |
| **Step 2** | Write a ratio that compares the quantities given in the problem. |
| **Step 3** | Write a proportion that reflects the equality of the ratios in fraction form. |
| **Step 4** | Solve for the unknown by cross multiplication. |

Give What Is Asked

**1. It takes 15 minutes for Joy to read 10 pages of a book. How long will it take her to read 100 pages of the book.**

**3. A car travels 240 miles in 6 hours. How far will it travel in 20 hours?**

**2. 16 candy bars weigh 32 ounces, how many candy bars are there if the candy bars weigh 48 ounces?**

**Step 1**

**Step 2**

**Step 3**

**Step 4**

Task Cards

Match the blue cards and the pink cards to find proportions.

**a**

**1**

**144:72**

**8:18**

**b**

**2**

**1.5:5:25**

**16:8**

**c**

**3**

**4:9**

**3:4**

**d**

**4**

**16:7**

**9:45**

**e**

**5**

**9:12**

**32:14**

**f**

**6**

**24:86**

**75:25**

**7**

**g**

**25:125**

**225:75**

**8**

**h**

**3:10.5**

**12:43**

|  |  |  |
| --- | --- | --- |
|  | **ANSWER KEY** | |
|  | **1** | **150 minutes** |
|  | **2** | **24 candy bars** |
|  | **3** | **800 miles** |
|  | **Task Cards** |  |
|  | **1.** | **c** |
|  | **2.** | **a** |
|  | **3.** | **e** |
|  | **4.** | **g** |
|  | **5.** | **d** |
|  | **6.** | **h** |
|  | **7.** | **f** |
|  | **8.** | **b** |
|  |  |  |