Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

**5.0A Complex Fractions\_Classwork**

*Objective: find ratios, rates, and unit rates involving ratios of fractions. CC.SS.7.RP.1 and RP.3*

*HW: 5.0A worksheet*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***REVIEW***

|  |  |  |
| --- | --- | --- |
| 1. Convert the measurement:
2. 30 min = \_\_\_\_\_\_\_ hr
3. 4 hr = \_\_\_\_\_\_\_\_\_\_min
4. 15 sec = \_\_\_\_\_\_\_ min
5. 60 hr = \_\_\_\_\_\_\_\_ days
6. 3 days = \_\_\_\_\_\_\_ hr
7. 1 wk = \_\_\_\_\_\_\_\_ hr
 | 1. ***Are the fractions equivalent? Explain.***

$$\frac{12}{48} and\frac{9}{18}$$ | 1. ***Solve the equation.***

$$\frac{1}{7}n=-4$$ |
| 1. ***Solve the equation***

$$-2w=-9$$ | 1. ***Solve the equation***

$$6=2w$$ | 1. ***Solve the equation.***

$$\frac{y}{-5}=3$$ |

 |

|  |  |  |
| --- | --- | --- |
| REVIEW: $\frac{3}{8}÷\frac{1}{2}=$***Simplifying expressions that contain fractions.*** *Show how you can rewrite each expression as division problem. Then simplify.*

|  |  |
| --- | --- |
| 1. $\frac{\frac{1}{2} cup}{4 fl oz}$
 | 1. $\frac{\frac{5}{6}gal}{\frac{2}{3} sec}$
 |

 |



**CRITICAL THINKING PROBLEM:**

A communications satellite in orbit travels about 18 miles every 4 seconds. You can use the ratio table below to find and organize equivalent ratios and rates. Complete the ratio table below.



1. How far does the satellite travel in 1 second?
2. How can you use a ratio table to find the speed of the satellite in miles per minute?
3. How can you use a ratio table to find the speed of the satellite in miles per hour?
4. How far does the satellite travel in ½ second?