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

**2.4D Dividing Fractions\_Classwork**

*Objective: dividing fractions*

*HW: worksheet 2.4D*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **WARM-UP**Find each product

|  |  |  |  |
| --- | --- | --- | --- |
| 1. $-\frac{5}{4}∙\frac{1}{3}=$
 | 1. $\frac{8}{7}∙\frac{7}{10}=$
 | 1. $1\frac{1}{4}∙(-\frac{1}{3})=$
 | 1. $5∙\frac{2}{5}=$
 |

 |

**RULE for Dividing Fractions**

|  |
| --- |
| 1. Change mixed fractions into improper fractions. Change whole number into a fraction by putting a 1 in the denominator
2. Determine if the answer is positive or negative

$$-÷-=+ + ÷+=+ - ÷+=- + ÷-=-$$1. Keep the first fraction the same
2. Change division sign into multiplication sign
3. Take the reciprocal of the second fraction

**EXAMPLE:** $\frac{8}{7}$ 🡪 $-\frac{8}{7}$ 🡪 $-\frac{1}{7}$ 🡪 7 🡪1. Simplify both fractions before multiplying if possible
2. Multiply both numerators
3. Multiply both denominators
4. Simplify the answer
 |

**EXAMPLES**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. $\frac{1}{5}÷\frac{7}{4}=$
 | 1. $-\frac{3}{2}÷-\frac{10}{7}=$
 | 1. $-\frac{9}{5}÷2=$
 | 1. $3\frac{5}{9}÷-3=$
 |

**WORD PROBLEMS**

