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

**2.4C Multiplying Fractions\_Classwork**

|  |  |  |  |
| --- | --- | --- | --- |
| Review

|  |  |  |
| --- | --- | --- |
| 1. (-12)(-5) =
 | 1. (1.3)(-0.1) =
 | 1. (-14)(4.4) =
 |

 |

|  |  |
| --- | --- |
| **Example 1**$$Find \frac{1}{3} of \frac{2}{5} (one-third of two-fifths)$$ | **Example 2**$$Find \frac{2}{3} of \frac{5}{6} (two-thirds of five-sixths)$$ |

|  |
| --- |
| $$\frac{Numerator times numerator (shaded rectangle)}{denominator times denominator (total \# of parts)}$$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. Simplify both fractions before multiplying if possible
2. Multiply both numerators
3. Multiply both denominators
4. Simplify the answer
 |

|  |  |  |
| --- | --- | --- |
| 1. $\frac{3}{7}∙-7=$
 | 1. $-1\frac{3}{4}∙6=$
 | 1. $-2∙-1\frac{5}{7}=$
 |
| 1. $(-\frac{3}{4})^{2}=$
 | 1. $-(\frac{3}{4})^{2}=$
 | 1. $(\frac{3}{4})^{3}$=
 |

**Multiplying Fractions Word Problems**

|  |  |
| --- | --- |
| 1. Bill wants to put a large mural on a wall that is $9\frac{1}{3}$ feet long and $8\frac{1}{8}$ feet wide. Find the area of the wall. If the mural is 100 square feet, will it fit on the wall?
 | 1. $\frac{1}{5}$ of today’s college students began using computers between the age of 5 and 8. If a college has 3,500 students, how many of the students began using computers between the ages of 5 and 8?
 |
| 1. A paper published in a medical journal reported that about $\frac{11}{25}$ of girls ages 16 to 17 do not exercise at all. The entire study consisted of about 2,500 girls. About how many did not exercise?
 | 1. Catherine walks her dog $\frac{3}{4}$ mile every day. How far does she walk each week?
 |

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

**2.4C Multiplying Fractions\_ Homework**

