**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5.2.2.7. Work Period –Multiplying Fractions by Fractions Using an Algorithm**

**Directions:** Multiply each set of fractions to find the product. Be sure your answer is in simplest form!

**Remember:** $\frac{a}{b}$ x $\frac{c}{d}$ = $\frac{a x c}{b x d}$

1. $\frac{1}{2}$ x $\frac{2}{8}$ = 2. $\frac{3}{9}$ x $\frac{3}{4}$ = 3. $\frac{1}{2}$ x $\frac{2}{8}$ =

4. $\frac{2}{12}$ x $\frac{4}{5}$ = 5. $\frac{5}{9}$ x $\frac{1}{8}$ = 6. $\frac{5}{10}$ x $\frac{6}{10}$ =

 7. Elijah is baking sugar cookies. The recipe uses $\frac{3}{4}$ cup of sugar. Elijah wants to make one half of the batch. How many cups of sugar does he need? Show your work.



 8. Ashley has $\frac{4}{5}$ of a quart of milk in the fridge. She uses one third of this milk for her cereal. How much milk did Ashley use? Show your work.





 **Dividing Fractions**

There are 3 Simple Steps to Divide Fractions:

Step 1. Turn the second fraction upside-down this is now a [reciprocal](http://www.mathsisfun.com/reciprocal-fraction.html)

Step 2. [Multiply](http://www.mathsisfun.com/fractions_multiplication.html) the first fraction by that reciprocal

Step 3. Step 3. [Simplify](http://www.mathsisfun.com/simplifying-fractions.html) the fraction

**Example 1:**

|  |  |  |
| --- | --- | --- |
| 1 | ÷ | 1 |
|  |  |
|  2 | 6 |

Example 2 :





**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5.2.2.7. Homework –Multiplying Fractions by Fractions Using an Algorithm**

**Directions:** Solve each problem and find the answer in the box. Place the letter corresponding to the answer in the blanks to answer the riddle.

|  |
| --- |
| Description: http://www.how-to-draw-funny-cartoons.com/image-files/cartoon-mosquito-9.gifDescription: http://www.how-to-draw-funny-cartoons.com/image-files/cartoon-mosquito-9.gifDescription: http://www.how-to-draw-funny-cartoons.com/image-files/cartoon-mosquito-9.gif **K** $\frac{9}{35}$ **B** $\frac{3}{4}$ **E** $\frac{4}{5}$ **G** $\frac{3}{7}$ **N** $\frac{4}{21}$ **I** $\frac{2}{7}$ **R** $\frac{4}{5}$ **S** $\frac{3}{14}$ |

1. $\frac{4}{9}$ **x** $\frac{3}{7}$
2. $\frac{2}{3}$ **x** $\frac{3}{7}$
3. $\frac{3}{5}$ **x** $\frac{3}{7}$



1. $\frac{1}{2}$ **x** $\frac{3}{7}$

**What is a mosquito’s favorite sport? \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ diving.**

  **4 3 2 1**