

Math 6 - Unit 1: Number System Fluency

Fraction Skills Review

Name: KEY

Class Period: 1 2 3 4 Date: _____

Solve the following multiplication problems (always simplify your answers):

1) $\frac{2}{3} \cdot \frac{3}{4} = \frac{1}{2}$

2) $4 \cdot \frac{7}{8} = \frac{7}{2}$ or $3\frac{1}{2}$

3) $2\frac{1}{2} \cdot 3\frac{1}{3} = \frac{25}{3}$ or $8\frac{1}{3}$

Solve the following division problems (always simplify your answers):

4) $5 \div \frac{2}{3} = \frac{15}{2}$ or $7\frac{1}{2}$

5) $\frac{4}{5} \div 5 = \frac{4}{25}$

6) $\frac{4}{7} \times \frac{3}{8} = \frac{3}{14}$

7) $\frac{5}{12} \div \frac{3}{4} = \frac{5}{9}$

8) $4\frac{2}{3} \div 3\frac{1}{2} = \frac{4}{3}$ or $1\frac{1}{3}$

9) $\frac{7}{8} \div 2 = \frac{7}{16}$

10) Alice and Samantha watered $\frac{5}{6}$ of the yard together. Samantha watered $\frac{1}{3}$ of that amount. What part of the yard did Samantha water?

$\frac{5}{18}$ of the yard

11) A bag holding $7\frac{1}{5}$ pounds of mixed nuts will be divided equally among 9 people. How many pounds of nuts will each person get?

$\frac{4}{5}$ of a pound

12) It takes a baseball team 2 hours to complete a game. How long will it take to complete $\frac{2}{3}$ of a game?

$\frac{4}{3}$

13) Felipe studied for $3\frac{3}{4}$ hours this week. If he studied the same amount of time each day for 5 days, how long did he study each day?

$\frac{3}{4}$ of an hour



NAME _____

Lesson 2.2**Using Visual Models to Divide Fractions**

Fraction bars can be used to help divide fractions.



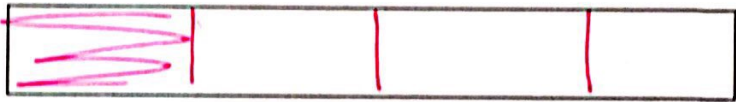
When dividing $\frac{1}{3}$ by $\frac{1}{6}$, you are finding out how many sixths are equal to $\frac{1}{3}$. When you line up the fraction bars and divide them into the appropriate pieces, you can see that $\frac{2}{6}$ is equal to $\frac{1}{3}$.

Therefore,

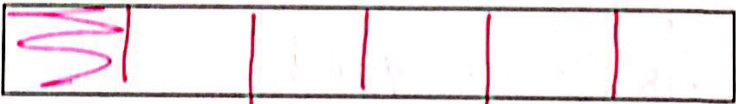
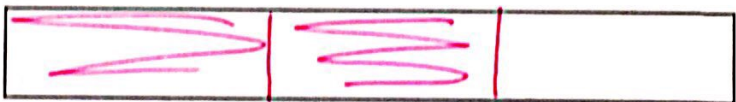
$$\frac{1}{3} \div \frac{1}{6} = 2$$

Use the fraction bars to solve the problems. Write answers in simplest form.

1. $\frac{1}{2} \div \frac{1}{4} = \underline{2}$



2. $\frac{2}{3} \div \frac{1}{6} = \underline{4}$



3. $\frac{3}{5} \div \frac{1}{15} = \underline{9}$

