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 $3\frac{1}{2}$

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 $3\frac{1}{3}$

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

4)
$$5 \div \frac{2}{3} = \frac{15}{2}$$
 or $7\frac{1}{2}$ 5) $\frac{4}{5} \div 5 = \frac{4}{25}$

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 $\frac{1}{3}$ 9) $\frac{7}{8} \div 2 = \frac{7}{16}$

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?

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?

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?

Lesson 2.2

Using Visual Models to Divide Fractions

Fraction bars can be used to help divide fractions.

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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 $\frac{1}{3}$.

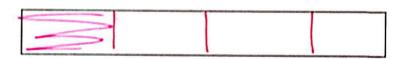
Therefore,

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

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

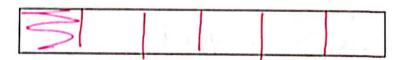
1.
$$\frac{1}{2} + \frac{1}{4} = 2$$





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





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

