

Extra Practice Unit 2-Fractions

Multiplying Fractions

1. Calculate the following expressions. Simplify to lowest terms.

a. $\frac{4}{5} \times \frac{2}{7} =$

b. $\frac{3}{9} \times \frac{12}{15} =$

c. $3\frac{5}{6} \times \frac{1}{2} =$

d. $\frac{3}{4} \times 7 =$

2. On Wednesday the farmers at the Clinton Farm picked $\frac{9}{10}$ of a barrel of tomatoes. Thursday, the farmers picked $\frac{1}{3}$ as many tomatoes as on Wednesday. How many barrels of tomatoes did the farmers pick on Thursday?
3. Last month, Marlon and Jennifer sold candy to raise money for their debate team. Jennifer sold $\frac{2}{3}$ as much candy as Marlon did. If Marlon sold $\frac{1}{5}$ of a box of candy, how many boxes of candy did Jennifer sell?
4. Wilson Middle School is holding a fundraiser and plans to use $\frac{3}{10}$ of the money collected to build a new library. Of the money directed towards building the new library, $\frac{2}{3}$ will go towards purchasing computers. What fraction of the money raised will go towards purchasing computers for the library?

Dividing Fractions

1. Calculate the following expressions. Simplify to lowest terms.

a. $\frac{3}{4} \div \frac{5}{6} =$

b. $\frac{9}{5} \div \frac{3}{2} =$

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

d. $3 \div \frac{4}{9} =$

2. A factory used $\frac{1}{2}$ of a barrel of almonds to make 2 batches of granola bars. How many barrels of almonds did the factory put in each batch?

3. A gardener spread $\frac{1}{2}$ of a bag of mulch evenly over his 5 equal-sized vegetable beds. How much mulch did he put on each vegetable bed?

4. Peter wants to make brownies. To make brownies, he needs $\frac{1}{2}$ of a cup of flour per batch of brownies. If Peter has 3 cups of flour, then how many batches of brownies can Peter make?

5. Joey bought 4 cans of paint and $\frac{1}{2}$ of a pint of special paint additive formulated to reduce mildew. Before painting his house, he divided the additive equally among the 4 cans of paint. How much additive did he put in each can?

Bedmas

1. Calculate the following expressions. Simplify to lowest terms.

a. $\frac{1}{4} - \frac{5}{6} \times \frac{1}{6}$

b. $\frac{3}{5} \div \frac{5}{6} + \frac{1}{5}$

c. $\frac{3}{5} \times \left(\frac{1}{2} + \frac{2}{9}\right)$

d. $\left(\frac{5}{6} - \frac{2}{5}\right) \div \frac{3}{4}$

e. $\frac{2}{4} \div \left(\frac{3}{8} - \frac{2}{3}\right) \times \frac{2}{1}$

2. Where can you place the brackets to make this true?

$$\frac{2}{3} + \frac{3}{4} \times \frac{4}{5} - \frac{1}{5} = \frac{14}{15}$$