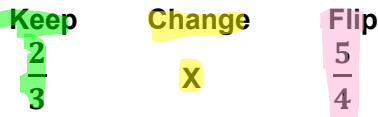


TEST will be MONDAY, October 4th
Remember – if you can solve it another way, it's okay as long as you SHOW your WORK and it makes sense.

1 Which expression is equivalent to $\frac{2}{3} \div \frac{4}{5}$?

- (A) $\frac{3}{2} \times \frac{4}{5}$ (C) $\frac{2}{3} \times \frac{4}{5}$
 (B) $\frac{3}{2} \times \frac{5}{4}$ (D) $\frac{2}{3} \times \frac{5}{4}$

When dividing fractions, use **Keep Change Flip**.



2 Leah bought $\frac{3}{4}$ pound of trail mix to make snack bags. She put $\frac{1}{8}$ pound of trail mix into each snack bag. How many bags can she make?

$\frac{3}{4} \div \frac{1}{8} \rightarrow \frac{3}{4} \times \frac{8}{1} = \frac{24}{4} = 6$ bags can be made.

K C F

3 Last week Carlos spent $3\frac{1}{2}$ hours practicing the piano. This was $\frac{1}{3}$ the amount of time he spent reading. How long did Carlos spend reading last week?

$$3\frac{1}{2} \div \frac{1}{3} \rightarrow \frac{7}{2} \times \frac{3}{1} = \frac{21}{2} = 10\frac{1}{2}$$

Carlos read for 10 and $\frac{1}{2}$ hours last week.

4 What is the missing factor in the equation

$$2\frac{2}{3} \times \square = \frac{1}{3}?$$

- (A) $\frac{1}{8}$ (C) $\frac{9}{8}$
 (B) $\frac{8}{9}$ (D) $\frac{8}{1}$

$$\frac{8}{3} \times \square = \frac{1}{3}$$

$$\frac{8}{3} \times \frac{1}{8} = \frac{8}{24} = \frac{1}{3}$$

After we convert the mixed number to an improper fraction, we can see that we have to get from 8 to 1. That means divide by 8. But when we divide fractions, we actually multiply by the reciprocal. The reciprocal of 8 is $\frac{1}{8}$.

5 Ms. O'Grady has $6\frac{1}{8}$ gallons of paint. She needs $1\frac{2}{5}$ gallons to paint each wall in her house. How many **complete** walls can Ms. O'Grady paint?

$$6\frac{1}{8} \div 1\frac{2}{5} \rightarrow \frac{49}{8} \div \frac{7}{5}$$

K C F

$$\frac{49}{8} \times \frac{5}{7} = \frac{35}{8}$$

$$\begin{array}{r} 49 \\ \times 5 \\ \hline 245 \end{array}$$

$$\frac{245}{56} =$$

$$\begin{array}{r} 4 \\ 8 \overline{)35} \end{array}$$

$$\begin{array}{r} 4 \\ 56 \overline{)245} \end{array}$$

Ms. O'Grady can paint 4 complete walls.

6 $\frac{9}{10} \div \frac{5}{10} =$

$$\frac{9}{10} \times \frac{10}{5} = \frac{90}{50} = 1\frac{40}{50} = 1\frac{4}{5}$$

$$\frac{9}{10} \times \frac{10}{5} = \frac{9}{5} = 1\frac{4}{5}$$

7 $\frac{2}{6} \div 3\frac{1}{3} =$

$$\frac{2}{6} \div \frac{10}{3} \rightarrow \frac{2}{6} \times \frac{3}{10} = \frac{6}{60} = \frac{1}{10}$$

K C F

$$\frac{2}{6} \times \frac{3}{10} = \frac{1}{10}$$

Name _____

$$\begin{array}{r} 6 \\ 17 \\ \times 9 \\ \hline 153 \end{array}$$

8 $17 \div \frac{5}{9} =$

$$\frac{17}{1} \times \frac{9}{5} = \frac{153}{5} = 30 \frac{3}{5}$$

$$\begin{array}{r} 30 \\ 5 \overline{)153} \\ \underline{-15} \\ 03 \\ \underline{-0} \\ 3 \end{array}$$

9 $4 \frac{2}{7} \div 1 \frac{1}{4} =$

$$4 \frac{2}{7} \div 1 \frac{1}{4} = \frac{30}{7} \div \frac{5}{4} = \frac{30}{7} \times \frac{4}{5} = \frac{120}{35} = 3 \frac{15}{35} = 3 \frac{3}{7}$$

$$\begin{array}{r} 3 \\ 35 \overline{)120} \\ \underline{-105} \\ 15 \end{array}$$

10 Jacob filled a watering can with $\frac{5}{6}$ liter of water. He used $\frac{1}{12}$ liter to water each of his plants. How many plants did Jacob water?

$$\frac{5}{6} \div \frac{1}{12} =$$

K C F

$$\frac{5}{6} \times \frac{12}{1} = \frac{60}{6} = 10$$

Jacob watered 10 plants

11) The area of a rug measures $4 \frac{5}{8}$ square feet. The length of the rug measures $2 \frac{1}{2}$ feet.

What is the width of the rug in feet?

Area = length x width

Width = Area ÷ length

$$\text{Width} = 4 \frac{5}{8} \div 2 \frac{1}{2}$$

$$= \frac{37}{8} \div \frac{5}{2}$$

K C F

$$\frac{37}{8} \times \frac{2}{5} = \frac{74}{40} = 1 \frac{34}{40} = 1 \frac{17}{20}$$

Missing value

Length = $2 \frac{1}{2}$ feet

Area = $4 \frac{5}{8}$ feet