

Crack the Fractions Safe

Multiplication/Division - Fractions

Instructions:

Solve each word problem and circle the correct key. Then write the letter from each circled key in its place on the lines at the bottom.



Helpful Hint:

To multiply fractions:

STEP 1 Multiply the numerators (the top numbers of a fraction).

$$\frac{4}{5} \times \frac{5}{7} = \frac{20}{35}$$

STEP 2 Multiply the denominators (the bottom numbers of a fraction).

$$\frac{4}{5} \times \frac{5}{7} = \frac{20}{35}$$

STEP 3 Simplify your answer. To do this, divide both the top and bottom numbers by the greatest common factor (the greatest number that will divide into both numbers).

$$\frac{20}{35} \div \frac{5}{5} = \frac{4}{7}$$

To divide fractions:

STEP 1 Change the equation from a division problem to a multiplication problem. To do this, simply take the second fraction and flip the top and bottom numbers.

$$3 \div \frac{4}{5} \rightarrow \frac{3}{1} \times \frac{5}{4}$$

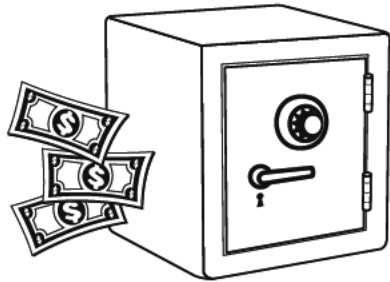
STEP 2 Multiply.

$$\frac{3}{1} \times \frac{5}{4} = \frac{15}{4}$$

STEP 3 Simplify.

$$\frac{15}{4} = 3 \frac{3}{4}$$

Crack the Fractions Safe



Crack the code to solve the riddle.

1 $5 \div \frac{1}{4} =$

R 25

O 20

P 15

2 $\frac{7}{8} \times \frac{3}{4} =$

A $\frac{24}{28}$

I $\frac{21}{32}$

T $\frac{21}{36}$

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

I $\frac{1}{9}$

M 6

R 9

4 $\frac{2}{3} \times \frac{7}{10} =$

A $\frac{21}{20}$

R $\frac{7}{15}$

T $\frac{21}{30}$

5 $7 \div \frac{5}{8} =$

M $11\frac{1}{5}$

S $4\frac{3}{8}$

B $12\frac{4}{5}$

6 $\frac{3}{11} \times \frac{3}{4} =$

E $\frac{18}{99}$

S $\frac{33}{42}$

R $\frac{9}{44}$

What turns everything around but does not move?

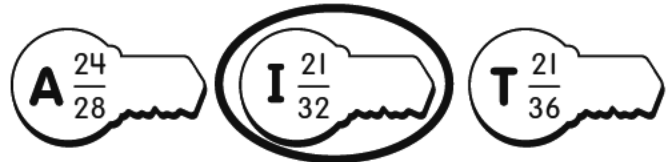
5 2 4 3 1 6

Answer Key

1 $5 \div \frac{1}{4} =$
 $\frac{5}{1} \times \frac{4}{1} = \frac{20}{1} = 20$



2 $\frac{7}{8} \times \frac{3}{4} = \frac{21}{32}$



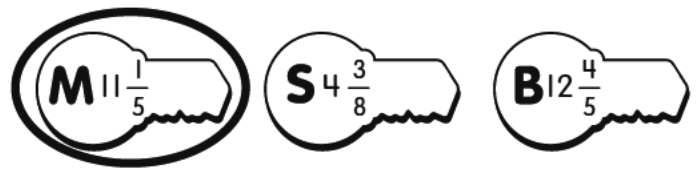
3 $3 \div \frac{1}{3} =$
 $\frac{3}{1} \times \frac{3}{1} = \frac{9}{1} = 9$



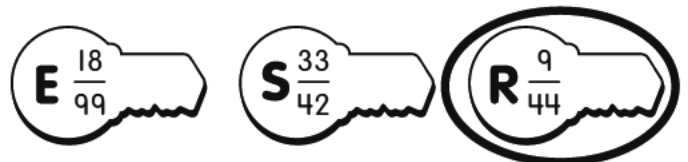
4 $\frac{2}{3} \times \frac{7}{10} = \frac{14}{30}$
 $\frac{14}{30} \div \frac{2}{2} = \frac{7}{15}$



5 $7 \div \frac{5}{8} =$
 $\frac{7}{1} \times \frac{8}{5} = \frac{56}{5} = 11 \frac{1}{5}$



6 $\frac{3}{11} \times \frac{3}{4} = \frac{9}{44}$



What turns everything around but does not move?

M I R R O R
 5 2 4 3 1 6