

Name: Class:

Divide whole numbers and unit fractions

a. Divide $6 \div \frac{3}{4}$

b. Divide $\frac{3}{4} \div 6$

c. Divide $2 \div \frac{1}{2}$

d. Divide $\frac{6}{2} \div 3$

e. Divide $7 \div \frac{5}{5}$

f. Divide $\frac{8}{2} \div 4$

g. Divide $9 \div \frac{3}{3}$

h. Divide $\frac{2}{6} \div 2$

i. Divide $\frac{5}{2} \div 10$

j. Divide the expressions below and tick the most correct answers.

$$3 \div \frac{3}{4} = \quad \input{checkbox} \frac{3 \times 4}{3} \quad \input{checkbox} \frac{12}{3} \quad \input{checkbox} \frac{9}{4} \quad \input{checkbox} 4$$

$$\frac{3}{4} \div 3 = \quad \input{checkbox} \frac{8}{4} \quad \input{checkbox} \frac{1}{4} \quad \input{checkbox} \frac{1}{12} \quad \input{checkbox} 2$$

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Divide whole numbers and unit fractions

a. Divide $6 \div \frac{3}{4}$

convert the whole number to a fraction = $\frac{6}{1}$

find the reciprocal of the divisor.

that is flip $\frac{3}{4}$ to have $\frac{4}{3}$

now, change the division sign to a multiplication sign and multiply.

$$6 \div \frac{3}{4} = \frac{6}{1} \times \frac{4}{3} = \frac{6 \times 4}{1 \times 3} = \frac{24}{3}$$

simplify. $24 = 8 \times 3$ which means $\frac{24}{3} = \frac{8 \times 3}{3} = \frac{8}{1} \times \frac{3}{3} = 8 \times 1 = 8$

So, $6 \div \frac{3}{4} = 8$

b. Divide $\frac{3}{4} \div 6$

convert the whole number to a fraction = $\frac{6}{1}$

find the reciprocal of the whole number.

that is flip $\frac{6}{1}$ to have $\frac{1}{6}$

now, change the division sign to a multiplication sign and multiply.

$$\frac{3}{4} \div 6 = \frac{3}{4} \times \frac{1}{6} = \frac{3 \times 1}{4 \times 6} = \frac{3}{24}$$

simplify. $\frac{3}{8 \times 3} = \frac{1}{8}$

So, $\frac{3}{4} \div 6 = \frac{1}{8}$

j. Divide the expressions below and tick the most correct answers.

$3 \div \frac{3}{4} =$ $\frac{3 \times 4}{3}$ $\frac{12}{3}$ $\frac{9}{4}$ 4

$\frac{3}{4} \div 3 =$ $\frac{8}{4}$ $\frac{1}{4}$ $\frac{1}{12}$ 2