

Name: Class:

Complete the division sentence

Solve for x. (Simplify your answer).

a. $x \div \frac{1}{9} = \frac{2}{5}$

b. $y \div \frac{3}{4} = \frac{10}{12}$

c. $u \div \frac{12}{24} = \frac{3}{4}$

d. $k \div \frac{2}{2} = \frac{1}{5}$

Solve for t. (write your answer as an improper fraction).

e. $\frac{1}{2} \div t = \frac{2}{5}$

f. $\frac{3}{5} \div s = \frac{1}{4}$

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Complete the division sentence

Solve for x. (Simplify your answer).

a. $x \div \frac{1}{9} = \frac{2}{5}$

Multiply $\frac{2}{5}$ by $\frac{1}{9}$ to find x.

$$x = \frac{2}{5} \times \frac{1}{9}$$

$$x = \frac{2}{45}$$

b. $y \div \frac{3}{4} = \frac{10}{12}$

Multiply $\frac{10}{12}$ by $\frac{3}{4}$ to find y.

$$y = \frac{10}{12} \times \frac{3}{4}$$

$$y = \frac{30}{48} \rightarrow \frac{5 \times 6}{8 \times 6} = \frac{5}{8}$$

c. $u \div \frac{12}{24} = \frac{3}{4}$

Multiply $\frac{3}{4}$ by $\frac{12}{24}$ to find u.

$$u = \frac{3}{4} \times \frac{12}{24}$$

$$x = \frac{36}{96} \rightarrow \frac{3 \times 12}{8 \times 12} = \frac{3}{8}$$

d. $k \div \frac{2}{2} = \frac{1}{5}$

Multiply $\frac{1}{5}$ by $\frac{2}{2}$ to find k.

$$k = \frac{1}{5} \times \frac{2}{2}$$

$$k = \frac{2}{10} \rightarrow \frac{2 \times 1}{2 \times 5} = \frac{1}{5}$$

Solve for t. (write your answer as an improper fraction).

e. $\frac{1}{2} \div t = \frac{2}{5}$

Divide both sides by t.

$$\frac{1}{2} \div t \div t = \frac{2}{5} \div t$$

Divide both sides by $\frac{2}{5}$.

$$\frac{1}{2} \div \frac{2}{5} = t$$

Multiply $\frac{1}{2}$ by the reciprocal.

of $\frac{2}{5}$

$$t = \frac{1}{2} \times \frac{5}{2}$$

$$t = \frac{5}{4}$$

f. $\frac{3}{5} \div s = \frac{1}{4}$

Divide both sides by s.

$$\frac{3}{5} \div s \div s = \frac{1}{4} \div s$$

Divide both sides by $\frac{1}{4}$.

$$\frac{3}{5} \div \frac{1}{4} = t$$

Multiply $\frac{3}{5}$ by the reciprocal.

of $\frac{1}{4}$

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

$$t = \frac{12}{5}$$