

Name: Class:

Complete the mixed - number multiplication sentence

Solve the variables in the following problems. Write your answer as a fraction, or as a whole number or mixed number.

a. $u \times 12\frac{1}{2} = 2$

b. $v \times 10\frac{1}{2} = 2\frac{2}{7}$

c. $6\frac{1}{3} \times w = 11\frac{1}{2}$

d. $t \times \frac{3}{4} = 2\frac{1}{4}$

e. $s \times 3\frac{1}{2} = 5\frac{1}{4}$

f. $5\frac{2}{9} \times q = 6$

g. $v \times \frac{2}{5} = 2\frac{1}{5}$

h. $w \times 6\frac{2}{3} = 2\frac{3}{5}$

i. $2\frac{3}{9} \times r = 9$

j. $7\frac{3}{5} \times t = 5$

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Complete the mixed - number multiplication sentence

Solve the variables in the following problems. Write your answer as a fraction, or as a whole number or mixed number.

a. $u \times 12\frac{1}{2} = 2$

Divide both sides by $12\frac{1}{2}$ to find u.

$$\frac{u \times 12\frac{1}{2}}{12\frac{1}{2}} = \frac{2}{12\frac{1}{2}}$$

$$u = 2 \div 12\frac{1}{2}$$

Convert $12\frac{1}{2}$ to an improper fraction.

$$2 \div \frac{(12 \times 2) + 1}{2} = \frac{2}{1} \div \frac{25}{2}$$

$$u = \frac{2}{1} \times \frac{2}{25}$$

$$u = \frac{4}{25}$$

d. $t \times \frac{3}{4} = 2\frac{1}{4}$

Divide both sides by $\frac{3}{4}$ to find t.

$$\frac{t \times \frac{3}{4}}{\frac{3}{4}} = \frac{2\frac{1}{4}}{\frac{3}{4}}$$

$u = 2\frac{1}{4} \div \frac{3}{4}$ Convert $2\frac{1}{4}$ to an improper fraction.

$$\frac{(4 \times 2) + 1}{4} \div \frac{3}{4} = \frac{9}{4} \div \frac{3}{4}$$

$$t = \frac{9}{4} \times \frac{4}{3}$$

$$t = 3$$

b. $v \times 10\frac{1}{2} = 2\frac{2}{7}$

$$v = \frac{32}{147}$$

e. $s \times 3\frac{1}{2} = 5\frac{1}{4}$

$$s = 1\frac{1}{2}$$

c. $6\frac{1}{3} \times w = 11\frac{1}{2}$

$$w = 1\frac{31}{38}$$

f. $5\frac{2}{9} \times q = 6$

$$q = 1\frac{7}{47}$$