

Name: Class:

one step equations: multiplication and division

Find the value of the following variables.

a. $a \times 5 = 10$

b. $t \div 5 = 25$

c. $P \div 7 = 2$

d. $8 = 4 \times z$

e. $3 \times a = 12$

f. $b = 15 \times 3$



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one step equations: multiplication and division

Find the value of the following variables.

a. $a \times 5 = 10$

Let's divide both sides by 5 to find a

$a \times 5 = 10$

$$\frac{a \times \cancel{5}}{\cancel{5}} = \frac{\cancel{10}^2}{\cancel{5}}$$

$a = 2$

So, $a = 2$.

b. $t \div 5 = 25$

Let's multiply both sides by 5 to find t.

$t \div 5 = 25$

$$\frac{t \times \cancel{5}}{\cancel{5}} = 25 \times 5$$

$t = 125$

So, $t = 125$.

c. $P \div 7 = 2$

Let's multiply both sides by 7 to find p.

$P \div 7 = 2$

$$\frac{P \times \cancel{7}}{\cancel{7}} = 2 \times 7$$

$P = 14$

So, $p = 14$.

d. $8 = 4 \times z$

Let's divide both sides by 4 to find z.

$8 = 4 \times z$

$$\frac{\cancel{8}^2}{\cancel{4}} = \frac{\cancel{4} \times z}{\cancel{4}}$$

$2 = z$

So, $z = 2$.

e. $3 \times a = 12$

Let's divide both sides by 3 to find a

$3 \times a = 12$

$$\frac{\cancel{3} \times a}{\cancel{3}} = \frac{\cancel{12}^4}{\cancel{3}}$$

$a = 4$

So, $a = 4$.

f. $b = 15 \times 3$

Let's multiply normally to find b.

$b = 15 \times 3$

$b = 45$

So, $b = 45$.