Maths

Solving two-step equations

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Solve the equations.

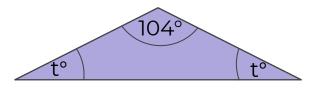
a)
$$8p - 9 = 47$$
 b) $\frac{q}{4} + 3 = 23$

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c)
$$\frac{5r}{3} = 15$$

d)
$$73 = 13 + 4s$$

2. Here is an isosceles triangle. Form and solve an equation to find t.



3. Solve the equations.

a)
$$-3a + 9 = 3$$

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 b) $-15 = 4b - 11$

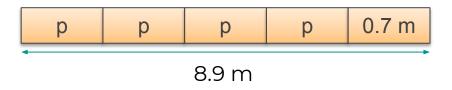
c)
$$\frac{-3c}{4} = 6$$

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 d) $-2 = \frac{d}{8} + 5$

4. Use this function machine to write and solve an equation to find y.



- 5. Solve the equations.
- a) 4w + 8 = 14 b) 13 = 3x 4.7
- c) $\frac{8y}{5} = -1.4$
- d) $\frac{z}{6} + 5 = 5\frac{3}{4}$
- 6. Form and solve an equation to find the length of the plank.



7. A box of 6 eggs weighs a total of 329.6 g.

The box weighs 10.4 g.

Form and solve an equation to find the mean weight of one egg.

8. I have three cards.

Two of them have the same value.



Their total value is 3.3

What could the other two be worth?



Answers



Solve the equations.

a)
$$8p - 9 = 47$$

 $p = 7$

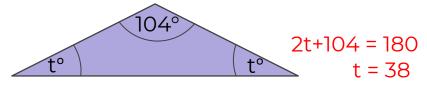
a)
$$8p - 9 = 47$$
 b) $\frac{q}{4} + 3 = 23$ $q = 80$

c)
$$\frac{5r}{3}$$
 = 15 r = 9

c)
$$\frac{5r}{3}$$
 = 15 r = 9 d) 73 = 13 + 4s s = 15

2. Here is an isosceles triangle.

Write an equation and solve to find t.



3. Solve the equations.

c)
$$\frac{-3c}{4} = 6$$

c = -8

c)
$$\frac{-3c}{4} = 6$$
 d) $-2 = \frac{d}{8} + 5$ d = -56

4. Use this function machine to write and solve an equation to find y.

$$y - x4 + 19 = 7$$

$$4y + 19 = 7$$

$$y = -3$$



5. Solve the equations.

a)
$$4w + 8 = 14$$

 $w = 1.5$

a)
$$4w + 8 = 14$$
 b) $13 = 3x - 4.7$ $x = 5.9$

c)
$$\frac{8y}{5} = -1.4$$

 $y = -0.875$

c)
$$\frac{8y}{5} = -1.4$$
 d) $\frac{z}{6} + 5 = 5\frac{3}{4}$ $z = 4\frac{1}{2}$

6. Form and solve an equation to find the length of a plank.

8.9 m
$$4p + 0.7 = 8.9$$

2.05 m $p = 2.05$

7. A box of 6 eggs weighs a total of 329.6 g.

The box weighs 10.4 g.

Form and solve an equation to find the mean weight of one egg. 53.2 q

8. I have three cards.

Two of them have the same value.

2.85 or -2.4and 8.1

Both

What could the other 2 be worth?

$$2c + -2.4 = 3.3$$
 $c + -4.8 = 3.3$

$$c + -4.8 = 3.3$$

$$c = 2.85$$

$$c = 8.1$$

