

Maths

Solving one-step equations

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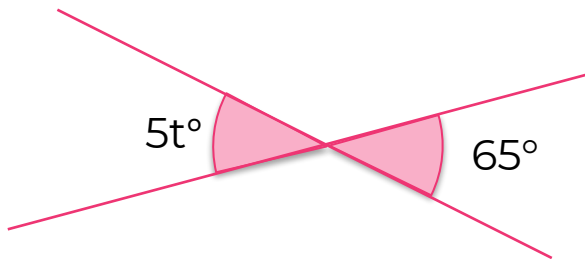
Solving one-step equations

1. Solve the equations.

a) $p - 17 = 28$ b) $7q = 63$

c) $\frac{r}{4} = 8$ d) $29 + s = 73$

2. Form and solve an equation to find t .



3. Solve the equations.

a) $a - 7 = -5$ b) $-4b = 20$

c) $\frac{c}{3} = -8$ d) $-11 + d = 46$

4. Amir is solving equations, what mistake has he made?

Amir's work is shown in a blue box. It starts with the equation $-8e = 48$. A green curved arrow labeled $\div 8$ points to the next step, $e = \frac{48}{8}$. Another green curved arrow labeled $\div 8$ points to the final step, $e = 6$.



Solving one-step equations

5. Solve the equations.

a) $w - 1.7 = 4.5$ b) $5x = 42$

c) $\frac{y}{3} = -1\frac{3}{4}$ d) $z + 7.2 = 4.38$

6. 8 jellybeans weigh 26 g.



Form and solve an equation to find what 1 jellybean weighs.

7. Dora is x m tall.

Mo is 0.3 m shorter than Dora.

Mo is 1.28 m tall.

Form and solve an equation to find Dora's height.

8. I think of a number.

I add $8\frac{3}{4}$ to it and the answer is 4.5

Form and solve an equation to find the number I was thinking of.



Answers



Solving one-step equations

1. Solve the equations.

a) $p - 17 = 28$

$p = 45$

b) $7q = 63$

$q = 9$

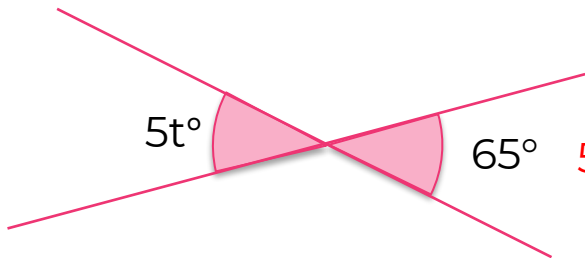
c) $\frac{r}{4} = 8$

$r = 32$

d) $29 + s = 73$

$s = 44$

2. Form and solve an equation to find t.



$5t = 65$
 $t = 13$

3. Solve the equations.

a) $a - 7 = -5$

$a = 2$

b) $-4b = 20$

$b = -5$

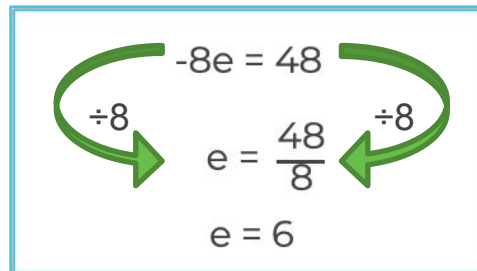
c) $\frac{c}{3} = -8$

$c = -24$

d) $-11 + d = 46$

$d = 57$

4. Amir is solving equations, what mistake has he made?



$-8e = 48$
 $\div 8$
 $e = \frac{48}{8}$
 $e = 6$

He should
have
divided by
-8



Solving one-step equations

5. Solve the equations.

a) $w - 1.7 = 4.5$
 $w = 6.2$

b) $5x = 42$
 $x = 8.4$

c) $\frac{y}{3} = -1\frac{3}{4}$
 $y = -5\frac{1}{4}$

d) $z + 7.2 = 4.38$
 $z = -2.82$

6. 8 jellybeans weigh 26 g.



Form and solve an equation to find what 1 jellybean weighs.

3.25 g

$8j = 26$
 $j = 3.25$

7. Dora is x m tall.

Mo is 0.3 m shorter than Dora.

Mo is 1.28 m tall

Form and solve an equation to find Dora's height.

$x - 0.3 = 1.28$

$x = 1.58$

1.58 m

8. I think of a number.

I add $8\frac{3}{4}$ to it and the answer is 4.5.

Form and solve an equation to find the number I was thinking of.

$n + 8.75 = 4.5$

$n = -4.25$

