

$$x + 3 = 7$$
$$x + 3 + -3 = 7 + -3$$
$$x = 4$$

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- 1 Solve the equation.**  
(It only has one solution)

$$x + 4 = 18$$

$$x + 4 + -4 = 18 + -4$$
$$x = 14$$

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- 2 Solve the equation.**  
(It only has one solution)

$$-7 = r + 6$$

$$-7 + -6 = r + 6 + -6$$

$$-13 = r$$

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- 3 Solve the equation.**  
(It only has one solution)

$$t - 1 = 11$$

$$t - 1 + 1 = 11 + 1$$

$$t = 12$$

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- 4 Solve the equation.**  
(It only has one solution.)  
Enter your answer as an  
improper fraction.

$$\frac{1}{5} + f = 9$$

$$\frac{1}{5} + f + -\frac{1}{5} = 9 + -\frac{1}{5}$$
$$f = \frac{45}{5} + -\frac{1}{5}$$

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- 5 Solve the equation.**  
(It only has one solution)

$$4 + 3y = 4y$$

$$4 + 3y + -3y = 4y + -3y$$
$$4 = 1y$$
$$4 = y$$

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- 6 Solve the equation.  
(It only has one solution)

$$3.8 + x = 13.7$$

$$3.8 + x + -3.8 = 13.7 + -3.8$$

$$x = 9.9$$

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- 7 Solve the equation.  
(It only has one solution)

$$7y = 6y - 2.8$$

$$7y + -6y = 6y + -2.8 + -6y$$

$$y = -2.8$$

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- 8 Solve the equation.  
(It only has one solution)

$$2(y + 4) = 3(y - 4)$$

Hint: first, simplify  
each expression.

$$2y + 8 = 3y - 12$$

$$2y + 8 + -2y = 3y + -12 + -2y$$

$$8 = y + -12$$

$$8 + 12 = y + -12 + 12$$

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- 9 Solve the equation.  
(It only has one solution)

$$4(2z - 3) = 7(z + 2)$$

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**10 Solve the equation.**  
(It only has one solution)

$$-6(x + 4) - (-7x + 7) = 4$$



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**11 Solve the equation.**  
(It only has one solution)

$$10n = 7n + 7 + 2n$$



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**12 Solve the equation.**  
(It only has one solution)

$$-7c + 3 + 5c = -3c + 8$$



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**13 Solve the equation.**  
(It only has one solution.)  
Enter your answer as an  
improper fraction.

$$\frac{4}{9}y + \frac{4}{7} = -\frac{5}{9}y - \frac{2}{3}$$

Can we get all the y's  
on the same side?

$$\frac{4}{9}y + \frac{4}{7} + \frac{5}{9}y = -\frac{5}{9}y + \frac{-2}{3} + \frac{5}{9}y$$

$$y + \frac{4}{7} = -\frac{2}{3}$$

$$y + \frac{4}{7} + \frac{-4}{7} = -\frac{2}{3} + \frac{-4}{7}$$

$$y = \frac{-14}{21} + \frac{-12}{21}$$

$$y = -\frac{26}{21}$$



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**14** In the race for student body president, Jose received 102 more votes than Angela. If Angela received  $x$  votes, how many votes did Jose receive?

Ⓓ

- A)  $(x - 102)$  votes
- B)  $(102 - x)$  votes
- C)  $(x + 102)$  votes
- D)  $102x$  votes

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**15** A 54-centimeter piece of rope is cut into two pieces. If one piece is  $z$  centimeters long, express the other length as an algebraic expression in  $z$ .

Ⓓ

- A)  $(54 - 2z)$  cm
- B)  $(z - 54)$  cm
- C)  $(54 - z)$  cm
- D)  $(z + 54)$  cm

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