
































































## Lesson 4: Solving Two-Step Equations using Addition, Subtraction, Multiplication, and Division

**Directions:** Solve each equation and use a pencil to **DRAW** the object that corresponds with your answer. **SHOW YOUR STEPS!!!**

<p><b>1.</b> <math>2x + 1 = 7</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = 3</math> draw the following ears.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = 4</math> draw the following ears.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = 3$ draw the following ears.		(b) If your answer is $x = 4$ draw the following ears.		<p><b>2.</b> <math>4x - 2 = 6</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = 8</math> draw a small patch of hair on the top of the head.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = 2</math> draw a small patch of hair above each of the ears.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = 8$ draw a small patch of hair on the top of the head.		(b) If your answer is $x = 2$ draw a small patch of hair above each of the ears.		<p><b>3.</b> <math>-12x - 3 = -51</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = 4</math> draw the following glasses and eyes.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = -4</math> draw the following glasses and eyes.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = 4$ draw the following glasses and eyes.		(b) If your answer is $x = -4$ draw the following glasses and eyes.	
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<p><b>4.</b> <math>14 = 11x + 3</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = 1</math> draw the following LARGE nose and mustache.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = 11</math> draw the following LARGE nose and mustache.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = 1$ draw the following LARGE nose and mustache.		(b) If your answer is $x = 11$ draw the following LARGE nose and mustache.		<p><b>5.</b> <math>-6 + 8x = -38</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = 4</math> draw the following skinny eyebrows.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = -4</math> draw the following bushy eyebrows.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = 4$ draw the following skinny eyebrows.		(b) If your answer is $x = -4$ draw the following bushy eyebrows.		<p><b>6.</b> <math>3 + 6x = 45</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = 8</math> draw two wrinkle lines on the forehead.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = 7</math> draw three wrinkle lines on the forehead.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = 8$ draw two wrinkle lines on the forehead.		(b) If your answer is $x = 7$ draw three wrinkle lines on the forehead.	
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<p><b>7.</b> <math>3x - 10 = -1</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = 3</math> draw two wrinkle lines on each cheek.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = -3</math> draw three wrinkle lines on each cheek.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = 3$ draw two wrinkle lines on each cheek.		(b) If your answer is $x = -3$ draw three wrinkle lines on each cheek.		<p><b>8.</b> <math>25 = 25 + 5x</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = 0</math> draw a necktie on the shirt.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = 1</math> draw a bow tie on the shirt.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = 0$ draw a necktie on the shirt.		(b) If your answer is $x = 1$ draw a bow tie on the shirt.		<p><b>9.</b> <math>-2 + 6x = 16</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = 3</math> write the scientific term for water (<math>H_2O</math>) on the shirt.</td> <td style="width: 20%; text-align: center; padding: 2px;"><math>H_2O</math></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = 2</math> draw a pencil coming out of a pocket on the shirt.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = 3$ write the scientific term for water ( $H_2O$ ) on the shirt.	$H_2O$	(b) If your answer is $x = 2$ draw a pencil coming out of a pocket on the shirt.	
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<p><b>10.</b> <math>2 + 7x = 65</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = 9</math> draw a light bulb above the head.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = 8</math> draw a broken light bulb above the head.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = 9$ draw a light bulb above the head.		(b) If your answer is $x = 8$ draw a broken light bulb above the head.		<p><b>11.</b> <math>20 = 14x - 8</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = 2</math> draw a science beaker with bubbling liquid.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = -2</math> draw a science beaker on fire.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = 2$ draw a science beaker with bubbling liquid.		(b) If your answer is $x = -2$ draw a science beaker on fire.		<p><b>12.</b> <math>2x + 7 = -15</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = -4</math> write the formula <math>A = \frac{1}{2}bh</math> on the background.</td> <td style="width: 20%; text-align: center; padding: 2px;"><math>A = \frac{1}{2}bh</math></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = -11</math> write the formula <math>E = mc^2</math> on the background.</td> <td style="text-align: center; padding: 2px;"><math>E = mc^2</math></td> </tr> </table>	(a) If your answer is $x = -4$ write the formula $A = \frac{1}{2}bh$ on the background.	$A = \frac{1}{2}bh$	(b) If your answer is $x = -11$ write the formula $E = mc^2$ on the background.	$E = mc^2$
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13.  $3x + 5 = 14$

(a) If your answer is  $x = -3$   
color the ears yellow.

(b) If your answer is  $x = 3$   
color the ears orange.

14.  $-10 = -4x - 10$

(a) If your answer is  $x = -4$   
color the hair on the head brown.

(b) If your answer is  $x = 0$   
color the hair on the head gray.

15.  $5 + 8x = 37$

(a) If your answer is  $x = 3$   
color the eyes green.

(b) If your answer is  $x = 4$   
color the eyes blue.

16.  $-16x - 2 = 46$

(a) If your answer is  $x = -3$   
color the glasses purple.

(b) If your answer is  $x = 3$   
color the glasses red.

17.  $19 = 2x + 3$

(a) If your answer is  $x = 8$   
color the nose pink.

(b) If your answer is  $x = 11$   
color the nose red.

18.  $5x - 7 = -67$

(a) If your answer is  $x = -12$   
color the mustache gray.

(b) If your answer is  $x = 12$   
color the mustache brown.

19.  $22 = 7 + 3x$

(a) If your answer is  $x = 4$   
outline all the facial wrinkles in  
brown.

(b) If your answer is  $x = 5$   
outline all the facial wrinkles in  
black.

20.  $4x + 2 = 10$

(a) If your answer is  $x = 2$   
color the eyebrows brown.

(b) If your answer is  $x = 3$   
color the eyebrows gray.

21.  $-3x - 4 = 5$

(a) If your answer is  $x = 3$   
color the tie purple.

(b) If your answer is  $x = -3$   
color the tie red.

22.  $7 + 4x = 27$

(a) If your answer is  $x = 5$   
outline all the letters/numbers in  
black.

(b) If your answer is  $x = 4$   
outline all the letters/numbers in  
red.

23.  $12 = 10x + 12$

(a) If your answer is  $x = 1$   
color the shirt yellow.

(b) If your answer is  $x = 0$   
color the shirt blue.

24.  $2x - 9 = -3$

(a) If your answer is  $x = 3$   
color the face, neck, & arms orange.

(b) If your answer is  $x = -6$   
color the face, neck, & arms yellow.

25.  $-15 + 4x = 33$

(a) If your answer is  $x = 12$   
color the light bulb yellow.

(b) If your answer is  $x = 48$   
color the light bulb orange.

26.  $84 = -20x + 4$

(a) If your answer is  $x = -4$   
color the beaker purple.

(b) If your answer is  $x = 4$   
color the beaker red.

27.  $5x + 4 = 24$

(a) If your answer is  $x = 5$   
color the background red.

(b) If your answer is  $x = 4$   
color the background green.

**Artistic Tip:** When you are done coloring, it looks nice to outline the major features using a black crayon or marker.