
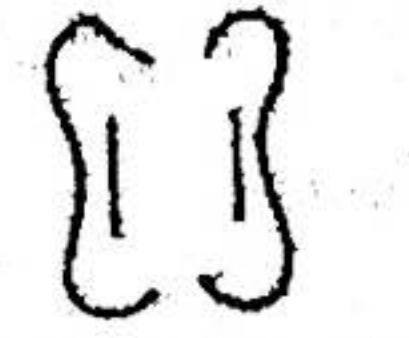

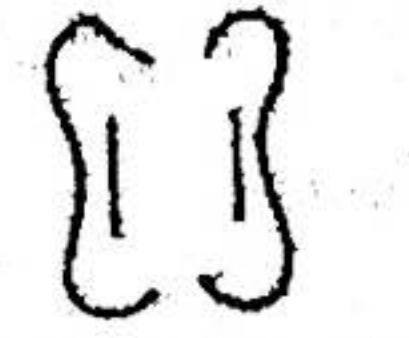
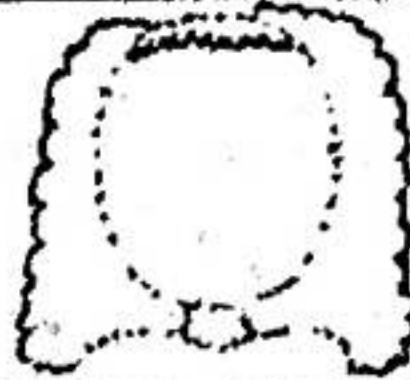
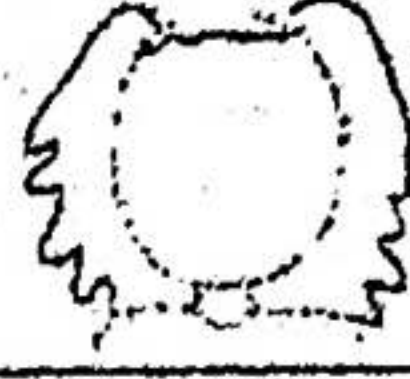
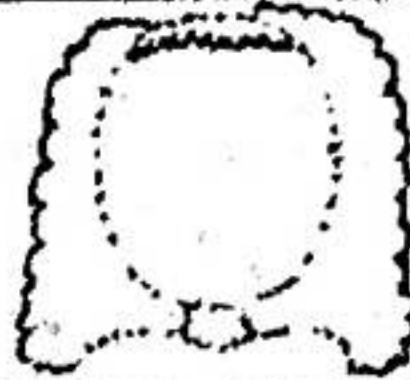
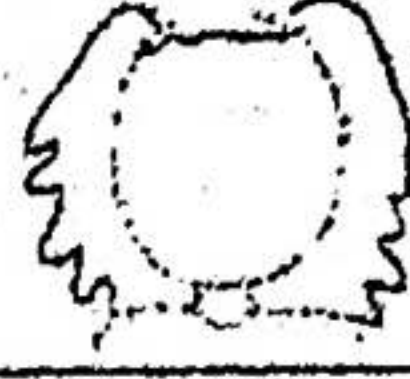





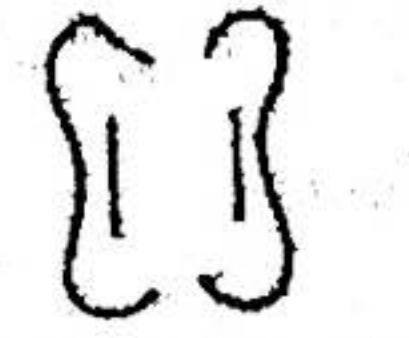
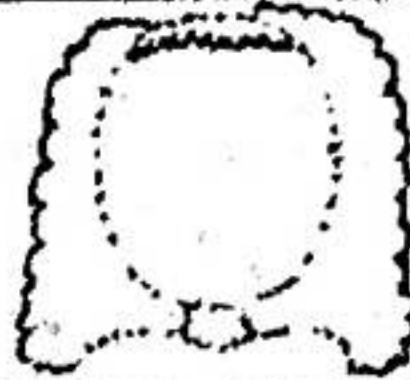
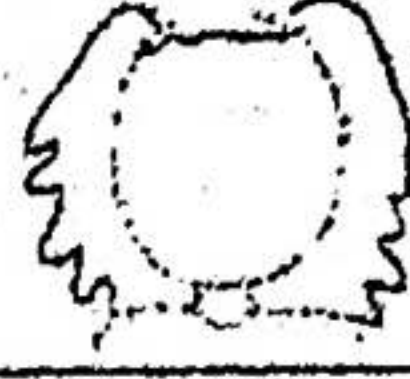






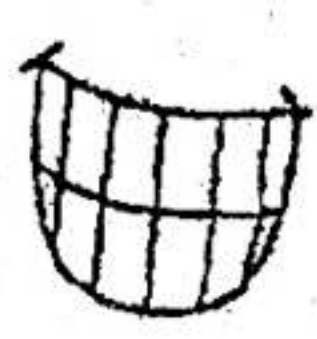

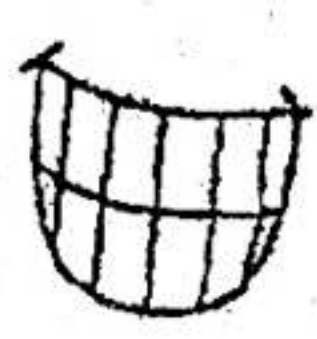







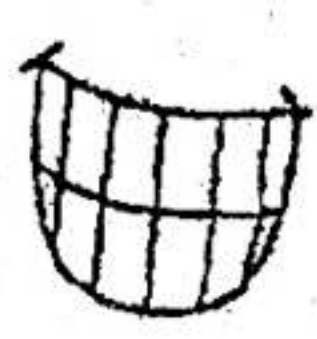



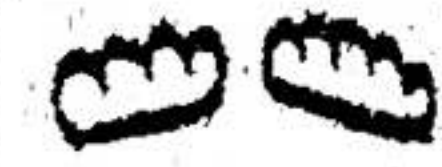
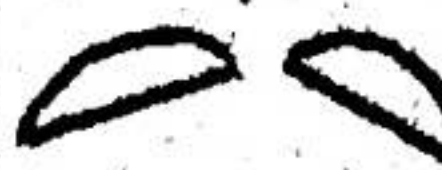
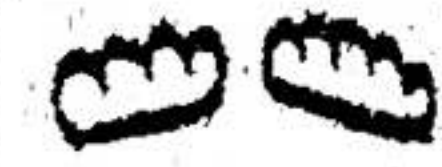
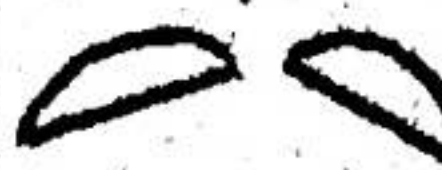








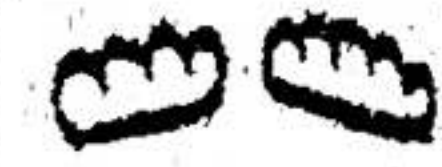
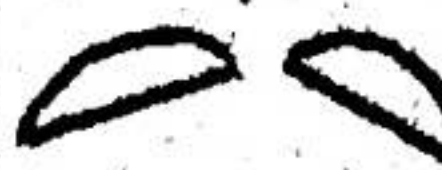




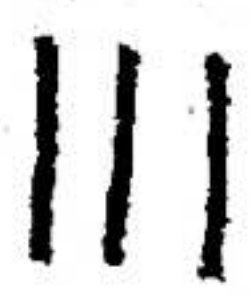
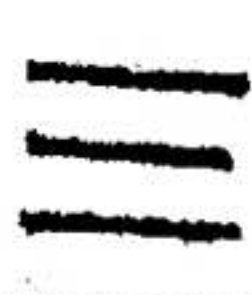
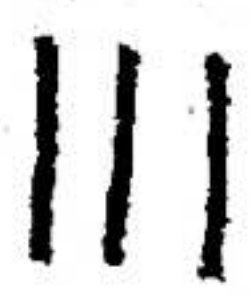
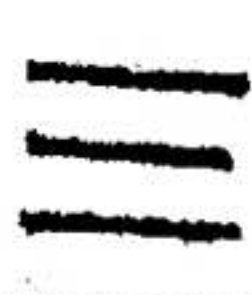





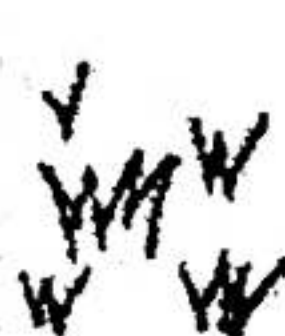

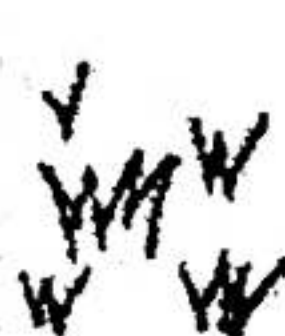
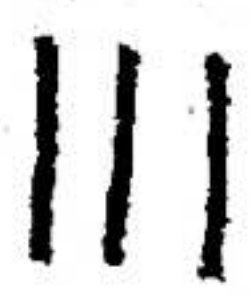
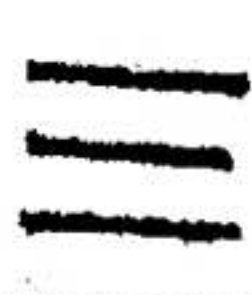



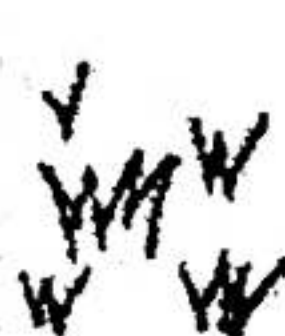


## Lesson 5: Solving Multi-Step Equations using the Distributive Property

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

<p>1. <math>2(x+7) = 28</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 2px;">(a) If your answer is <math>x = \frac{21}{2}</math> draw the following ears.</td> <td style="width: 30%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = 7</math> draw the following ears.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = \frac{21}{2}$ draw the following ears.		(b) If your answer is $x = 7$ draw the following ears.		<p>2. <math>-5(1+2n) = 15</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 2px;">(a) If your answer is <math>n = 2</math> draw long curly hair.</td> <td style="width: 30%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>n = -2</math> draw long wavy hair.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $n = 2$ draw long curly hair.		(b) If your answer is $n = -2$ draw long wavy hair.		<p>3. <math>20 = -4(3a-2)</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 2px;">(a) If your answer is <math>a = 1</math> draw the following hat on the top of the head.</td> <td style="width: 30%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>a = -1</math> draw the following hat on the top of the head.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $a = 1$ draw the following hat on the top of the head.		(b) If your answer is $a = -1$ draw the following hat on the top of the head.	
(a) If your answer is $x = \frac{21}{2}$ draw the following ears.														
(b) If your answer is $x = 7$ draw the following ears.														
(a) If your answer is $n = 2$ draw long curly hair.														
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(a) If your answer is $a = 1$ draw the following hat on the top of the head.														
(b) If your answer is $a = -1$ draw the following hat on the top of the head.														
<p>4. <math>\frac{1}{3}(9x-3) = -10</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 2px;">(a) If your answer is <math>x = -3</math> draw the following earrings.</td> <td style="width: 30%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = -\frac{7}{3}</math> draw the following earrings.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = -3$ draw the following earrings.		(b) If your answer is $x = -\frac{7}{3}$ draw the following earrings.		<p>5. <math>10(2x-1) = 0</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 2px;">(a) If your answer is <math>x = \frac{1}{2}</math> draw the following mouth that covers half of the face.</td> <td style="width: 30%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = 2</math> draw the following mouth that covers half of the face.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = \frac{1}{2}$ draw the following mouth that covers half of the face.		(b) If your answer is $x = 2$ draw the following mouth that covers half of the face.		<p>6. <math>6 = 6(2n-5)</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 2px;">(a) If your answer is <math>n = \frac{11}{12}</math> draw the following rectangular eyes.</td> <td style="width: 30%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>n = 3</math> draw the following oval eyes.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $n = \frac{11}{12}$ draw the following rectangular eyes.		(b) If your answer is $n = 3$ draw the following oval eyes.	
(a) If your answer is $x = -3$ draw the following earrings.														
(b) If your answer is $x = -\frac{7}{3}$ draw the following earrings.														
(a) If your answer is $x = \frac{1}{2}$ draw the following mouth that covers half of the face.														
(b) If your answer is $x = 2$ draw the following mouth that covers half of the face.														
(a) If your answer is $n = \frac{11}{12}$ draw the following rectangular eyes.														
(b) If your answer is $n = 3$ draw the following oval eyes.														
<p>7. <math>.7 = 2(x-5)</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 2px;">(a) If your answer is <math>x = 6</math> draw the following eyebrows.</td> <td style="width: 30%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = \frac{17}{2}</math> draw the following eyebrows.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = 6$ draw the following eyebrows.		(b) If your answer is $x = \frac{17}{2}$ draw the following eyebrows.		<p>8. <math>-2(x+7) = 28</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 2px;">(a) If your answer is <math>x = -21</math> draw the following nose.</td> <td style="width: 30%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = 21</math> draw the following nose.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = -21$ draw the following nose.		(b) If your answer is $x = 21$ draw the following nose.		<p>9. <math>12\left(m + \frac{1}{2}\right) = 24</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 2px;">(a) If your answer is <math>m = \frac{2}{3}</math> draw a necklace around the neck.</td> <td style="width: 30%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>m = \frac{3}{2}</math> draw a whistle around the neck.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $m = \frac{2}{3}$ draw a necklace around the neck.		(b) If your answer is $m = \frac{3}{2}$ draw a whistle around the neck.	
(a) If your answer is $x = 6$ draw the following eyebrows.														
(b) If your answer is $x = \frac{17}{2}$ draw the following eyebrows.														
(a) If your answer is $x = -21$ draw the following nose.														
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(a) If your answer is $m = \frac{2}{3}$ draw a necklace around the neck.														
(b) If your answer is $m = \frac{3}{2}$ draw a whistle around the neck.														
<p>10. <math>21 = -7(2x-1)</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 2px;">(a) If your answer is <math>x = -1</math> draw vertical stripes on the shirt.</td> <td style="width: 30%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = 1</math> draw horizontal stripes on the shirt.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = -1$ draw vertical stripes on the shirt.		(b) If your answer is $x = 1$ draw horizontal stripes on the shirt.		<p>11. <math>-6(5-2x) = 18</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 2px;">(a) If your answer is <math>x = 3</math> draw a football and goal post in the background.</td> <td style="width: 30%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = 4</math> draw a soccer ball and goal post in the background.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $x = 3$ draw a football and goal post in the background.		(b) If your answer is $x = 4$ draw a soccer ball and goal post in the background.		<p>12. <math>10 = 4(3a+2)</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 2px;">(a) If your answer is <math>a = \frac{2}{3}</math> draw mud puddles in the background.</td> <td style="width: 30%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>a = \frac{1}{6}</math> draw tufts of grass in the background.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>	(a) If your answer is $a = \frac{2}{3}$ draw mud puddles in the background.		(b) If your answer is $a = \frac{1}{6}$ draw tufts of grass in the background.	
(a) If your answer is $x = -1$ draw vertical stripes on the shirt.														
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(a) If your answer is $x = 3$ draw a football and goal post in the background.														
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(a) If your answer is $a = \frac{2}{3}$ draw mud puddles in the background.														
(b) If your answer is $a = \frac{1}{6}$ draw tufts of grass in the background.														



**Directions:** Solve each equation and **COLOR** the object that corresponds with your answer.  
**SHOW YOUR STEPS!!!**

13.  $7 = 2(x + 5)$

(a) If your answer is  $x = -\frac{3}{2}$   
color the earrings green.

(b) If your answer is  $x = \frac{3}{2}$   
color the earrings purple.

14.  $-2(-2m + 3) = 6$

(a) If your answer is  $m = 3$   
color the ears brown.

(b) If your answer is  $m = \frac{3}{4}$   
color the ears yellow.

15.  $-3 = -\frac{1}{2}(n - 6)$

(a) If your answer is  $n = -12$   
color the hair on the head yellow.

(b) If your answer is  $n = 12$   
color the hair on the head red.

16.  $7(1 + 2x) = -21$

(a) If your answer is  $x = -2$   
color the hat stripes black and white.

(b) If your answer is  $x = 2$   
color the hat stripes black and blue.

17.  $4 = -2\left(\frac{1}{2}x - 1\right)$

(a) If your answer is  $x = -5$   
outline the mouth in pink.

(b) If your answer is  $x = -2$   
outline the mouth in red.

18.  $\frac{2}{3}(x + 6) = -2$

(a) If your answer is  $x = -4$   
outline the teeth in brown.

(b) If your answer is  $x = -9$   
outline the teeth in black.

19.  $21 = -7(2x - 1)$

(a) If your answer is  $x = -1$   
outline the nose in brown.

(b) If your answer is  $x = 1$   
outline the nose in orange.

20.  $-\frac{1}{2}(-4a + 2) = 5$

(a) If your answer is  $a = 1$   
color the eyes green.

(b) If your answer is  $a = 3$   
color the eyes blue.

21.  $3(2 - x) = 12$

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

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

22.  $\frac{1}{2}(2x + 4) = -10$

(a) If your answer is  $x = -12$   
color the face, neck, & arms brown.

(b) If your answer is  $x = -14$   
color the face, neck, & arms yellow.

23.  $-36 = -3(5 + m)$

(a) If your answer is  $m = 7$  color  
the object around the neck orange.

(b) If your answer is  $m = -7$  color  
the object around the neck purple.

24.  $-8(2x - 1) = 0$

(a) If your answer is  $x = 2$  color the  
stripes on the shirt black & blue.

(b) If your answer is  $x = \frac{1}{2}$  color the  
stripes on the shirt black & white.

25.  $2 = -\frac{2}{3}(x - 6)$

(a) If your answer is  $x = -3$   
color the ball brown.

(b) If your answer is  $x = 3$   
color the ball black & white.

26.  $5(1 - 2n) = -15$

(a) If your answer is  $n = -2$   
color the goal post brown.

(b) If your answer is  $n = 2$   
color the goal post black.

27.  $27\left(\frac{1}{3}x - \frac{1}{9}\right) = 10$

(a) If your answer is  $x = \frac{13}{9}$   
color the background green.

(b) If your answer is  $x = \frac{9}{13}$   
color the background brown.

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



