













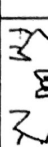



Lesson 1: Algebraic Expressions, Variables & Order of Operations

Directions: Solve each problem. SHOW YOUR WORK!!!

<p>1. Write the expression. Seven less than n.</p> <p style="font-size: 2em; text-align: center;">$n - 7$</p>	<p>(a) If your answer is 7 - n draw the following hair.</p> 	<p>(b) If your answer is n - 7 draw the following hair.</p> 	<p>4. Jenna has \$10 more than Alyssa. Alyssa has x dollars. Write an expression to show the amount of Jenna's money.</p> <p style="font-size: 2em; text-align: center;">$x + 10$</p>	<p>(a) If your answer is 10x draw the following mustache.</p> 	<p>(b) If your answer is x + 10 draw the following mustache.</p> 
<p>2. Write the expression. A number y increased by four.</p> <p style="font-size: 2em; text-align: center;">$y + 4$</p>	<p>(a) If your answer is y + 4 draw the following nose.</p> 	<p>(b) If your answer is 4y draw the following nose.</p> 	<p>5. Jonathan has five fewer cookies than Will. Will has c cookies. Which expression represents the situation?</p> <p style="font-size: 2em; text-align: center;">$c - 5$</p>	<p>(a) If your answer is c - 5 draw the following eyes.</p> 	<p>(b) If your answer is x + 10 draw the following eyes.</p> 
<p>3. Write the expression. Two more than the product of four and m.</p> <p style="font-size: 2em; text-align: center;">$4m + 2$</p>	<p>(a) If your answer is 4m + 2 draw the following eyebrows.</p> 	<p>(b) If your answer is 2 + m + 4 draw the following eyebrows.</p> 	<p>6. Yvana has one more than three times as many pencils as Bruno. Bruno has p pencils. Which expression shows Yvana's pencils?</p> <p style="font-size: 2em; text-align: center;">$3p + 1$</p>	<p>(a) If your answer is 3p + 1 draw the following wrinkles on the forehead.</p> 	<p>(b) If your answer is 1 + p · p · p draw the following wrinkles on the forehead.</p> 
<p>7. Write an expression. Six minus the quotient of twenty-five and five.</p> <p style="font-size: 2em; text-align: center;">$6 - \frac{25}{5}$</p>	<p>(a) If your answer is 6 - 25(5) draw the following object on the serving tray.</p> 	<p>(b) If your answer is 6 - 25/5 draw the following object on the serving tray.</p> 	<p>8. Evaluate 3y - 2 for y = 9</p> <p style="font-size: 2em; text-align: center;">$3(9) - 2$ $27 - 2$ 25</p>	<p>(a) If your answer is 10 draw the following shirt.</p> 	<p>(b) If your answer is 25 draw the following shirt.</p> 
<p>9. Evaluate 2pq - r for p = 3, q = 2 and r = 5</p> <p style="font-size: 2em; text-align: center;">$2(3)(2) - 5$ $12 - 5$ 7</p>	<p>(a) If your answer is 227 write the following name.</p> <p style="text-align: center;">Henri Poincare</p>	<p>(b) If your answer is 7 write the following name.</p> <p style="text-align: center;">Albert Einstein</p>	<p>10. Evaluate $x(3 + y)$ for x = 2 and y = 12</p> <p style="font-size: 2em; text-align: center;">$2(3 + 12)$ $6 + 24$ 30</p>	<p>(a) If your answer is > 4 color the face, neck & arm sleeves apricot.</p> <p>(b) If your answer is < 4 color the face, neck & arm sleeves brown.</p>	<p>11. Evaluate $\frac{48}{ab}$ for a = 2 and b = 4</p> <p style="font-size: 2em; text-align: center;">$\frac{48}{2 \cdot 4} = \frac{48}{8} = 6$</p>
<p>11. Evaluate $12 + 2 + 2$ for b = 2</p> <p style="font-size: 2em; text-align: center;">$12 + 2 + 2 = 16$</p>	<p>(a) If your answer is > 5 color the eyes blue.</p> <p>(b) If your answer is < 5 color the eyes green.</p>	<p>12. Evaluate $12 + 2 + 2$ for b = 2</p> <p style="font-size: 2em; text-align: center;">$12 + 2 + 2 = 16$</p>	<p>13. A letter used to represent a number is called a/an</p> <p style="font-size: 2em; text-align: center;">variable</p>	<p>(a) If your answer is > 28 color the hair gray.</p> <p>(b) If your answer is < 28 color the hair brown.</p>	<p>14. Simplify the expression $18 - 8 - 2 + 3$</p> <p style="font-size: 2em; text-align: center;">$10 - 4 + 3 = 9$</p>
<p>12. Evaluate $12 + 2 + 2$ for b = 2</p> <p style="font-size: 2em; text-align: center;">$12 + 2 + 2 = 16$</p>	<p>(a) If your answer is > 5 color the eyes blue.</p> <p>(b) If your answer is < 5 color the eyes green.</p>	<p>13. A letter used to represent a number is called a/an</p> <p style="font-size: 2em; text-align: center;">variable</p>	<p>14. Simplify the expression $18 - 8 - 2 + 3$</p> <p style="font-size: 2em; text-align: center;">$10 - 4 + 3 = 9$</p>	<p>(a) If your answer is > 4 color the face, neck & arm sleeves apricot.</p> <p>(b) If your answer is < 4 color the face, neck & arm sleeves brown.</p>	<p>15. Simplify the expression $2(10 + 2) + 2$</p> <p style="font-size: 2em; text-align: center;">$2(12) + 2 = 24 + 2 = 26$</p>
<p>13. A letter used to represent a number is called a/an</p> <p style="font-size: 2em; text-align: center;">variable</p>	<p>(a) If your answer is > 28 color the hair gray.</p> <p>(b) If your answer is < 28 color the hair brown.</p>	<p>14. Simplify the expression $18 - 8 - 2 + 3$</p> <p style="font-size: 2em; text-align: center;">$10 - 4 + 3 = 9$</p>	<p>15. Simplify the expression $2(10 + 2) + 2$</p> <p style="font-size: 2em; text-align: center;">$2(12) + 2 = 24 + 2 = 26$</p>	<p>(a) If your answer is > 4 color the face, neck & arm sleeves apricot.</p> <p>(b) If your answer is < 4 color the face, neck & arm sleeves brown.</p>	<p>16. Simplify the expression $2 \cdot 5 + \frac{6 \cdot 2}{1 + 3} + \frac{12}{4}$</p> <p style="font-size: 2em; text-align: center;">$10 + 3 + 3 = 16$</p>
<p>14. Simplify the expression $18 - 8 - 2 + 3$</p> <p style="font-size: 2em; text-align: center;">$10 - 4 + 3 = 9$</p>	<p>(a) If your answer is > 4 color the face, neck & arm sleeves apricot.</p> <p>(b) If your answer is < 4 color the face, neck & arm sleeves brown.</p>	<p>15. Simplify the expression $2(10 + 2) + 2$</p> <p style="font-size: 2em; text-align: center;">$2(12) + 2 = 24 + 2 = 26$</p>	<p>16. Simplify the expression $2 \cdot 5 + \frac{6 \cdot 2}{1 + 3} + \frac{12}{4}$</p> <p style="font-size: 2em; text-align: center;">$10 + 3 + 3 = 16$</p>	<p>(a) If your answer is > 5 color the eyes blue.</p> <p>(b) If your answer is < 5 color the eyes green.</p>	<p>17. True or False $18 + (6 - 3) = 0$</p> <p style="font-size: 2em; text-align: center;">$18 + 3 = 21$</p>
<p>15. Simplify the expression $2(10 + 2) + 2$</p> <p style="font-size: 2em; text-align: center;">$2(12) + 2 = 24 + 2 = 26$</p>	<p>(a) If your answer is > 4 color the face, neck & arm sleeves apricot.</p> <p>(b) If your answer is < 4 color the face, neck & arm sleeves brown.</p>	<p>16. Simplify the expression $2 \cdot 5 + \frac{6 \cdot 2}{1 + 3} + \frac{12}{4}$</p> <p style="font-size: 2em; text-align: center;">$10 + 3 + 3 = 16$</p>	<p>17. True or False $18 + (6 - 3) = 0$</p> <p style="font-size: 2em; text-align: center;">$18 + 3 = 21$</p>	<p>(a) If your answer is > 9 color the tie red.</p> <p>(b) If your answer is 4 color the tie black.</p>	<p>18. True or False $62 = 1 + 2 - 03$</p> <p style="font-size: 2em; text-align: center;">$62 = 1 + 2 - 03$</p>
<p>16. Simplify the expression $2 \cdot 5 + \frac{6 \cdot 2}{1 + 3} + \frac{12}{4}$</p> <p style="font-size: 2em; text-align: center;">$10 + 3 + 3 = 16$</p>	<p>(a) If your answer is > 9 color the tie red.</p> <p>(b) If your answer is 4 color the tie black.</p>	<p>17. True or False $18 + (6 - 3) = 0$</p> <p style="font-size: 2em; text-align: center;">$18 + 3 = 21$</p>	<p>18. True or False $62 = 1 + 2 - 03$</p> <p style="font-size: 2em; text-align: center;">$62 = 1 + 2 - 03$</p>	<p>(a) If your answer is > 9 color the tie red.</p> <p>(b) If your answer is 4 color the tie black.</p>	<p>19. True or False Expressions do NOT have equal signs.</p>
<p>17. True or False $18 + (6 - 3) = 0$</p> <p style="font-size: 2em; text-align: center;">$18 + 3 = 21$</p>	<p>(a) If your answer is True color the mustache & eyebrows brown.</p> <p>(b) If your answer is False color the mustache & eyebrows gray.</p>	<p>18. True or False $62 = 1 + 2 - 03$</p> <p style="font-size: 2em; text-align: center;">$62 = 1 + 2 - 03$</p>	<p>19. True or False Expressions do NOT have equal signs.</p>	<p>(a) If your answer is > 9 color the tie red.</p> <p>(b) If your answer is 4 color the tie black.</p>	<p>20. Insert grouping symbols to make the number sentence true. $16 \div 2 \cdot 4 - 3 = 8$</p> <p style="font-size: 2em; text-align: center;">$(2 + 4) \cdot 2 - 3 = 8$</p>
<p>18. True or False $62 = 1 + 2 - 03$</p> <p style="font-size: 2em; text-align: center;">$62 = 1 + 2 - 03$</p>	<p>(a) If your answer is True color the glove red.</p> <p>(b) If your answer is False color the glove green.</p>	<p>19. True or False Expressions do NOT have equal signs.</p>	<p>20. Insert grouping symbols to make the number sentence true. $16 \div 2 \cdot 4 - 3 = 8$</p> <p style="font-size: 2em; text-align: center;">$(2 + 4) \cdot 2 - 3 = 8$</p>	<p>(a) If your answer is > 9 color the tie red.</p> <p>(b) If your answer is 4 color the tie black.</p>	<p>21. Insert grouping symbols to make the number sentence true. $5 \cdot 8 - 8 \cdot 5 + 2 = 34$</p> <p style="font-size: 2em; text-align: center;">$(2 + 2) \cdot 5 - 8 \cdot 5 + 2 = 34$</p>
<p>19. True or False Expressions do NOT have equal signs.</p>	<p>(a) If your answer is True color the object on the serving tray green.</p> <p>(b) If your answer is False color the object on the serving tray orange.</p>	<p>20. Insert grouping symbols to make the number sentence true. $16 \div 2 \cdot 4 - 3 = 8$</p> <p style="font-size: 2em; text-align: center;">$(2 + 4) \cdot 2 - 3 = 8$</p>	<p>21. Insert grouping symbols to make the number sentence true. $5 \cdot 8 - 8 \cdot 5 + 2 = 34$</p> <p style="font-size: 2em; text-align: center;">$(2 + 2) \cdot 5 - 8 \cdot 5 + 2 = 34$</p>	<p>(a) If your answer is > 9 color the tie red.</p> <p>(b) If your answer is 4 color the tie black.</p>	<p>22. True or False $18 + (6 - 3) = 0$</p> <p style="font-size: 2em; text-align: center;">$18 + 3 = 21$</p>
<p>20. Insert grouping symbols to make the number sentence true. $16 \div 2 \cdot 4 - 3 = 8$</p> <p style="font-size: 2em; text-align: center;">$(2 + 4) \cdot 2 - 3 = 8$</p>	<p>(a) If your answer is True color the object on the serving tray green.</p> <p>(b) If your answer is False color the object on the serving tray orange.</p>	<p>21. Insert grouping symbols to make the number sentence true. $5 \cdot 8 - 8 \cdot 5 + 2 = 34$</p> <p style="font-size: 2em; text-align: center;">$(2 + 2) \cdot 5 - 8 \cdot 5 + 2 = 34$</p>	<p>22. True or False $18 + (6 - 3) = 0$</p> <p style="font-size: 2em; text-align: center;">$18 + 3 = 21$</p>	<p>(a) If your answer is > 9 color the tie red.</p> <p>(b) If your answer is 4 color the tie black.</p>	<p>23. True or False $18 + (6 - 3) = 0$</p> <p style="font-size: 2em; text-align: center;">$18 + 3 = 21$</p>

Directions: Solve each problem and COLOR the object that corresponds with your answer. SHOW YOUR WORK!!!

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

Introducing...

Albert
Einstein

$$E = mc^2$$



Made by: Key