

Name: _____

Hour _____

Date: _____

6th Grade Practice Sheet 22

Show all work

1. Evaluate $54 - \frac{24}{8} \cdot 2^3$		6. Evaluate $2 + 3 \cdot (4 + (6 \cdot 2 - 8)) \cdot 2$	
2. Evaluate $3 + 9 \cdot 8 - 5^2$		7. Evaluate $(2^3 \times 4 - 2) \div 3 * 10$	
3. Using inverse operation solve the equation. $3t = 42$		8. Using inverse operation solve the equation. $\frac{x}{12} = 9$	
4. Evaluate when $x = 3.5$ $4.8x - 8.1$		9. Evaluate when $n = 4.6$ $\frac{n}{2} + 15.7$	
5. Find the sum of $3\frac{1}{2}$ and $\frac{11}{12}$		10. Find the difference of $\frac{7}{10}$ and $\frac{2}{5}$	

<p>11. Write the rule for the following table. (1 step)</p> <table border="1" data-bbox="175 205 328 447"> <thead> <tr> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-5</td> </tr> <tr> <td>4</td> <td>-2</td> </tr> <tr> <td>8</td> <td>2</td> </tr> <tr> <td>11</td> <td>5</td> </tr> </tbody> </table>	X	Y	1	-5	4	-2	8	2	11	5		<p>16. Write the rule for the following table. (1 step)</p> <table border="1" data-bbox="868 205 1021 447"> <thead> <tr> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-5</td> </tr> <tr> <td>4</td> <td>-2</td> </tr> <tr> <td>8</td> <td>2</td> </tr> <tr> <td>11</td> <td>5</td> </tr> </tbody> </table>	X	Y	1	-5	4	-2	8	2	11	5	
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<p>12. Write as an expression.</p> <p style="text-align: center;">the total of 15 and a number y</p>		<p>17. $7 \text{ lbs} = x \text{ oz.}$</p>																					
<p>13. Write as an expression.</p> <p style="text-align: center;">the difference of four times a number a and 6</p>		<p>18. $3 \text{ gallons} = x \text{ quarts}$</p>																					
<p>14. Write as an equation.</p> <p style="text-align: center;">five less than twice a number n is 3</p>		<p>19. $9.4 \text{ L} = x \text{ ml}$</p>																					
<p>15. Simplify</p> <p style="text-align: center;">$5(8 + x) - 10$</p>		<p>20. Simplify</p> <p style="text-align: center;">$7(12 - y) + 5$</p>																					

Be sure to show how you made your choice.

21) Ally jarred 8 liters of jam over the course of 4 days. How much jam did Ally jar if she spent 5 days making jam? Solve using unit rates

- a. 9 L
- b. 13 L
- c. 10 L
- d. 8.5 L

22) There are 18 men and 17 women running in a race. What is the ratio of female runners to male runners?

- a. 18 : 17
- b. 17 : 35
- c. 35 : 17
- d. 17 : 18

23) Joy is making lemonade for a party. She ends up making 4.5 pints of lemonade. Each of the six guests drink a cup. How much lemonade is left?

- a. 1 pt 1 cup
- b. 1 pt
- c. 2 pt
- d. 2 pt 2 cups

24) Aden has saved 800 dollars to build a computer. On his trip to Best Buy he spends \$432.00 on some of the parts he will need. What inequality will find how much he has left to spend for everything else?

- a. $x + 432 < 800$
- b. $x + 432 \geq 800$
- c. $x + 432 \leq 800$
- d. $x + 432 > 800$

25) Connie is renting a car. The rental fee is \$35 a day, but Connie has a coupon for \$7 off each day. Which of the following expressions represents the total cost of renting a car for d days?

- a. $\$35 - \7
- b. $\$35d - \7
- c. $(\$35 - \$7)d$
- d. $\$35 - \$7d$

26) About how many 8-ounce glasses of juice can you make from a 4-quart pitcher?

- a. 8
- b. 10
- c. 12
- d. 16

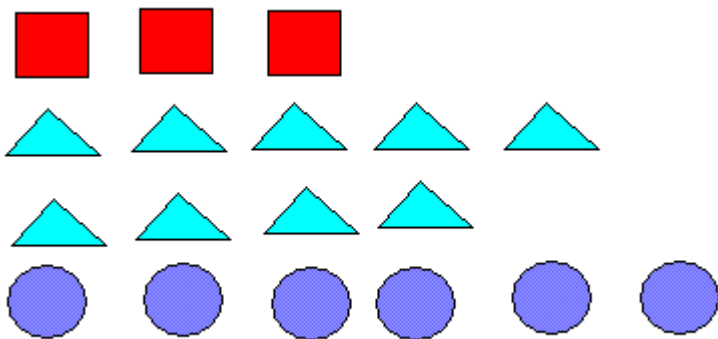
27) What is the first step in simplifying the expression $5 - 4(3 + 1)^2$?

- a. subtract 4 from 6
- b. multiply 4 and 3
- c. add 3 and 1
- d. square the sum

28) Which list contains only numbers that are multiples of 8?

- a. 1, 2, 4, 8
- b. 8, 24, 32, 56
- c. 1, 8, 16, 24
- d. 32, 16, 12, 8

Use the following visual to solve 29-30



29. What is the ratio of squares to circles?

- a. 6 : 3
- b. 3 : 6
- c. 3 : 9
- d. 9 : 18

30. What is the ratio of triangles to the total number of shapes?

- a. 9 : 9
- b. 18 : 9
- c. 6 : 9
- d. 9 : 18