

Name: _____

Period: _____

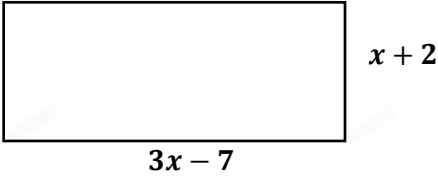
EOC Review #1

Due Date: 4/16/2020

Show all work needed to answer each question. Put your final answer in the box. Good luck 😊

<p>1. Which is the smallest set of real numbers that contains the value below?</p> $-\frac{18}{6}$ <p>A. Irrational Numbers B. Rational Numbers C. Natural Numbers D. Integers</p> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: auto;"></div>	<p>2. Which set contains the value below?</p> $\sqrt{50}$ <p>A. Irrational Numbers B. Natural Numbers C. Rational Numbers D. Integers</p> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: auto;"></div>
<p>3. The set below only contains which types of numbers?</p> $\left\{-1, 5, \frac{1}{2}, 15, 3.75, 36, \sqrt{81}, 100\right\}$ <p>A. Irrational Numbers B. Rational Numbers C. Integers D. Natural Numbers</p> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: auto;"></div>	<p>4. Select all sets to which the value below belongs.</p> $\sqrt{2} - \sqrt{2}$ <p><input type="checkbox"/> Real Numbers <input type="checkbox"/> Irrational Numbers <input type="checkbox"/> Rational Numbers <input type="checkbox"/> Integers <input type="checkbox"/> Whole Numbers <input type="checkbox"/> Natural Numbers</p>
<p>5. Which of the following is <i>true</i> regarding number sets?</p> <p>A. All integers are whole numbers. B. All irrational numbers are real numbers C. All real numbers are integers. D. All rational numbers are natural numbers.</p> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: auto;"></div>	<p>6. Which property justifies the statement below?</p> $x(y - 3) = xy - 3x$ <p>A. Associative Property B. Transitive Property C. Distributive Property D. Commutative Property</p> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: auto;"></div>

<p>7. Simplify the expression below:</p> $\frac{(3 - 13)^2 + 14}{4^2 - 5 \cdot 2}$ <div style="text-align: right; border: 1px solid black; width: 100px; height: 40px; margin-left: auto;"></div>	<p>8. Evaluate the expression below if $a = -8$, $b = 17$, and $c = 21$.</p> $a^2 - (b + c)$ <div style="text-align: right; border: 1px solid black; width: 100px; height: 40px; margin-left: auto;"></div>
<p>9. Evaluate the expression below if $x = -1$ and $y = 3$.</p> $3x^2 - y^2$ <div style="text-align: right; border: 1px solid black; width: 100px; height: 40px; margin-left: auto;"></div>	<p>10. Evaluate the expression below if $a = 8$ and $b = -5$.</p> $ a - b $ <div style="text-align: right; border: 1px solid black; width: 100px; height: 40px; margin-left: auto;"></div>
<p>11. Translate the statement below:</p> <p style="text-align: center;">“One less than twice a number.”</p> <p>A. $1 - n^2$ B. $n^2 - 1$ C. $1 - 2n$ D. $2n - 1$</p> <div style="text-align: right; border: 1px solid black; width: 100px; height: 40px; margin-left: auto;"></div>	<p>12. Translate the statement below:</p> <p style="text-align: center;">“Five times the difference of a number and 3 is 17.”</p> <p>A. $5n - 3 = 17$ B. $5(n - 3) = 17$ C. $\frac{5n}{3} = 17$ D. $5\left(\frac{n}{3}\right) = 17$</p> <div style="text-align: right; border: 1px solid black; width: 100px; height: 40px; margin-left: auto;"></div>
<p>13. Translate the statement below:</p> <p style="text-align: center;">“A number is no more than 50.”</p> <p>A. $x < 50$ B. $x \leq 50$ C. $x > 50$ D. $x \geq 50$</p> <div style="text-align: right; border: 1px solid black; width: 100px; height: 40px; margin-left: auto;"></div>	<p>14. Translate the statement below:</p> <p style="text-align: center;">“Your grade must be at least 70 to pass this class.”</p> <p>A. $g < 70$ B. $g \leq 70$ C. $g > 70$ D. $g \geq 70$</p> <div style="text-align: right; border: 1px solid black; width: 100px; height: 40px; margin-left: auto;"></div>

<p>15. Simplify the expression below:</p> $2m - 16 + 5m + 45$ <p>A. $7m + 29$ B. $7m + 61$ C. $-3m + 29$ D. $-3m + 61$</p> <input data-bbox="677 546 842 655" type="text"/>	<p>16. Simplify the expression below:</p> $2x - 4y + 6 + 3x - 9y - 4$ <p>A. $5x + 13y + 2$ B. $5x - 13y + 2$ C. $5x - 5y + 2$ D. $-8xy + 2$</p> <input data-bbox="1349 546 1515 655" type="text"/>
<p>17. Simplify the expression below completely.</p> $10 - 4(2x + 7)$ <input data-bbox="677 926 842 1035" type="text"/>	<p>18. Simplify the expression below completely.</p> $4(5w - 3) - (w - 1)$ <input data-bbox="1349 926 1515 1035" type="text"/>
<p>19. Give the perimeter of the rectangle below in simplest form.</p>  <input data-bbox="677 1339 842 1449" type="text"/>	<p>20. Identify the first step to solve the equation below:</p> $\frac{x}{-4} + 7 = -1$ <p>A. Add 4 B. Subtract 7 C. Multiply by -4 D. Add 1</p> <input data-bbox="1349 1339 1515 1449" type="text"/>
<p>21. Solve the equation below:</p> $5x + 1 = -49$ <input data-bbox="677 1749 842 1858" type="text"/>	<p>22. Solve the equation below:</p> $\frac{2}{3}x - 5 = 7$ <input data-bbox="1349 1749 1515 1858" type="text"/>