

**Math 6 - Unit 3: Expressions****HW - REVIEW**

Name: \_\_\_\_\_

Class Period: 1 2 3 4 Date: \_\_\_\_\_

1) <b>Simplify:</b> $4(10 - 4) - 1 + 7$	6) <b>Evaluate</b> the expression: $4s^2$ when $s = 5$ .
2) <b>Evaluate:</b> $5(x - 1) + 2x$ if $x = 3$	7) <b>Simplify</b> the expression: $3(2x + 6)$
3) Write $3 \cdot 3 \cdot 3 \cdot 3$ using <b>exponents</b> .	8) In the expression $2x - 4$ , what is the "4" called?
4) <b>Combine like terms:</b> $5x + x + 2n^2 - n^2$	9) <b>Translate</b> the expression: "8 less than x".
5) <b>Evaluate:</b> $4^3$	10) Which equation is <b>NOT</b> true? a) $a - b = b - a$ b) $a \cdot (b \cdot c) = (a \cdot b) \cdot c$ c) $4(a - b) = 4a - 4b$ d) $a + b = b + a$

**Math 6 - Unit 3: Expressions****HW - REVIEW KEY**

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<p>1) <b>Simplify:</b> <math>4(10 - 4) - 1 + 7</math></p> $4(6) - 1 + 7$ $24 - 1 + 7$ $23 + 7$ $\mathbf{30}$	<p>6) <b>Evaluate</b> the expression: <math>4s^2</math> when <math>s = 5</math>.</p> $4(5^2)$ $4(25)$ $\mathbf{100}$
<p>2) <b>Evaluate:</b> <math>5(x - 1) + 2x</math> if <math>x = 3</math></p> $5(3 - 1) + 2(3)$ $5(2) + 2(3)$ $10 + 2(3)$ $10 + 6$ $\mathbf{16}$	<p>7) <b>Simplify</b> the expression: <math>3(2x + 6)</math></p> $\mathbf{6x + 18}$
<p>3) Write <math>3 \cdot 3 \cdot 3 \cdot 3</math> using <b>exponents</b>.</p> $\mathbf{3^4}$	<p>8) In the expression <math>2x - 4</math>, what is the "4" called?</p> $\mathbf{\text{Constant}}$
<p>4) <b>Combine like terms:</b></p> $5x + x + 2n^2 - n^2$ $\mathbf{6x + n^2}$	<p>9) <b>Translate</b> the expression: "8 less than x".</p> $\mathbf{x - 8}$
<p>5) <b>Evaluate:</b> <math>4^3</math></p> $4 \times 4 \times 4$ $\mathbf{64}$	<p>10) Which equation is <b>NOT</b> true?</p> <p><math>\mathbf{a) a - b = b - a}</math></p> <p>b) <math>a \cdot (b \cdot c) = (a \cdot b) \cdot c</math></p> <p>c) <math>4(a - b) = 4a - 4b</math></p> <p>d) <math>a + b = b + a</math></p>