

# Chapter 7 Bell Work

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## Lesson 7.1

## Lesson 7.2

<p>1. Use exponents to write  <math>4 * 4 * 4 * 5 * 5</math></p>	<p>2. The number of gallons of water in a tank at the aquarium is equal to <math>6^4</math>. How many gallons of water are in the tank?</p>	<p>3. Is <math>5^2</math> equal to <math>25^5</math>?  <b>EXPLAIN</b> why or why not.</p>	<p>1. Evaluate the expression  <math>(10 - 7)^3 \div 9</math></p>	<p>2. Last month, an online bakery had approximately <math>10^4</math> visitors to its website. On average, each visitor bought 2 goodies. Approximately how many goodies did the bakery sell last month?</p>	<p>3. What's the error?            Joel wrote  <math>17 - 2^2 = 225</math>  <b>EXPLAIN</b> his error.</p>
<p>4. Vocabulary:            Use your own words to explain the term  <b>EXPONENT</b></p>	<p>5. Divide  <math>22.08 \div 92</math></p>	<p>6. Solve for n:  <math>12 - n = 3</math></p>	<p>4. Vocabulary:            Use your own words to explain the term  <b>EXPRESSION</b></p>	<p>5. What is the value of the expression  <math>(4.1 + 2.3) * 7.6</math></p>	<p>6. Solve for y:  <math>6y = 42</math></p>

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**Lesson 7.3**

**Lesson 7.4**

<p>1. Write an algebraic expression for the word expression:  <i>17 less than the quotient of a and 5</i></p>	<p>2. An amusement park charges \$35 per person for park entrance, plus a \$6 charge to park your car. Write an expression showing the cost for <math>n</math> people to enter the park in one car.</p>	<p>3. EXPLAIN why the order of operations is necessary.</p>	<p>1. How many coefficients are in the expression <math>2x + 4 - 3(9)</math></p>	<p>2. Amy bought fruit snacks at the store. The expression <math>4s + 6p</math> gives the number of packages in <math>s</math> boxes of Scooby Doo fruit snacks and <math>p</math> boxes of Princess fruit snacks. What are the terms of the expression?</p>	<p>EXPLAIN the difference between a coefficient and a constant.</p>
<p>4. Vocabulary: Use your own words to explain the term QUANTITY</p>	<p>5. Tammy received a king-size candy bar for her birthday. She ate <math>\frac{1}{4}</math> of it yesterday. Today she wants to share the rest of it with 2 of her friends. How much of the original candy bar will each of the three girls get?</p>	<p>6. Solve for <math>x</math>:  <math>2x + 17 = 43</math></p>	<p>4. Vocabulary: Use your own words to explain the term EVALUATE</p>	<p>5. Give the value of 3 squared.</p>	<p>6. Give one value of <math>j</math> that would make the inequality true.  <math>j &lt; 27</math></p>

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### LESSON 7.5

<p>1. Evaluate the expression for the given value: <math>c + c^2</math> for <math>c = 3</math></p>	<p>2. The formula <math>c = 5(f-32) \div 9</math> gives the Celsius temperature in <math>c</math> degrees for a Fahrenheit temperature of <math>f</math> degrees. What is the Celsius temperature for a Fahrenheit temperature of 32 degrees?</p>	<p>3. EXPLAIN how to evaluate an algebraic expression or a formula for a given value.</p>
<p>4. Vocabulary: Use your own words to explain the term <b>CONSTANT</b></p>	<p>5. Find the prime factorization of 104.</p>	<p>6. Give one value of <math>n</math> that would make the inequality true. <math>n \geq -18</math></p>

### LESSON 7.6

<p>1. Tim makes and sells bracelets online. He charges \$6 per bracelet, and \$7 shipping per order. Write an expression that Tim could use to find the total cost for ANY bracelet order.</p>	<p>2. Use the expression you wrote in question 1 to determine the total cost for an order of 13 bracelets.</p>	<p>3. MAKE A DECISION. Is the value of the variable in question 1 restricted to only certain numbers? Why or why not?</p>
<p>4. Vocabulary: Use your own words to explain the term <b>ALGEBRAIC</b></p>	<p>5. Sal says the prime factorization of 45 is <math>5 * 9</math>. Is Sal correct? Why or why not?</p>	<p>6. Graph the solution to the equation <math>6x = 18</math> on a number line.</p>



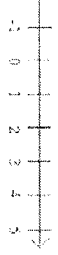


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**LESSON 7.7**

**LESSON 7.8**

<p>1. Simplify the expression: <math>2b + 17 - 6 + 4b</math></p>	<p>2. A shop sells vases holding 12 red roses and 6 white roses. The expression <math>12r + 6r</math> represents the total number of roses needed for <math>r</math> vases. Simplify the expression by combining like terms.</p>	<p>3. Explain how you know if an expression has been simplified completely.</p>	<p>1. Use properties to help simplify the expression: <math>3(5n + 4) + 6n</math></p>	<p>2. The cost to enter the art exhibit is \$6 per person. The souvenir booklet is \$3 extra. The expression <math>6p + 3p</math> gives the cost for <math>p</math> people to enter the exhibit and buy a souvenir booklet. Write an equivalent expression.</p>	<p>3. In class we compared the distributive property to Oprah. Think of your own trick to help you remember how to use the distributive property. Describe it!</p>
<p>4. Vocabulary: Use your own words to explain the term <b>SIMPLIFY</b></p>	<p>5. Find the LCM of 12 and 15</p>	<p>6. Graph the solution to the equation <math>x + 5 = 2</math> on a number line.</p> 	<p>4. Vocabulary: Use your own words to explain the term <b>PROPERTY</b></p>	<p>5. Find the LCM of 9 and 21</p> 	<p>6. Graph the solution to the inequality <math>y \geq 2</math></p> 

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**Lesson 7.q**

**Review Chapter 7**

<p>1. Use properties to help you determine if the two expressions are equivalent. <math>6y + (j + 2y)</math> and <math>8y + j</math></p>	<p>2. Jessica buys 5 CDs and adds them to the CDs she already has. Write an algebraic expression for the total number of CDs Jessica has.</p>	<p>3. DESCRIBE how to use the commutative and associative properties to help determine if the two expressions in question one are equivalent.</p>	<p>4. Vocabulary: Use your own words to explain the word TERM</p>	<p>5. Find the GCF of 24 and 18</p>	<p>6. List three values of <math>h</math> that would make the inequality true. <math>h \geq -2</math></p>
<p>1. Determine if the two expressions are equal. <math>3(v + 5) + 6v</math> and <math>3v + 11v</math></p>	<p>2. The expression <math>3.15 + 1.75m</math> gives the taxi fare for a trip of <math>m</math> miles. On Monday Jenny took a taxi for 6 miles and on Wednesday she took a taxi for 8 miles. How much did both trips cost together?</p>	<p>3. EXPLAIN why the expressions <math>10m + 10n</math> and <math>10m + n</math> are not equivalent even though they have the same value when <math>m = 4</math> and <math>n = 0</math>.</p>	<p>4. Vocabulary: Use your own words to explain the term PERSEVERANCE</p>	<p>5. Find the GCF of 54 and 36</p>	<p>6. List three values of <math>g</math> that would make the inequality true. <math>k &lt; 15</math></p>