Station 1 Instructions

1. If you have just finished Station 4, use the envelope to check your answers before beginning Station 1.
2. Be sure each member of your team has the handout with the Station 1 Notes Table.
3. Remove the cards from the Sort Activity envelopes. There should be two different colors of cards. One color has examples and the other has definitions to match the terms listed on the notes table.
4. Work together to match the examples and definitions to the terms. Please complete the Notes Table with the examples and definitions. Feel free to write the definition in your own words rather than copy them from the cards.
5. When you have finished the notes, place the cards back in the envelopes.
6. Work together to complete the practice problems for Station 1. Refer to your Notes Table as needed. If your team disagrees about an answer, please feel free to ask me for help.

Station 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Notes Table Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| Term | Example | Definition |
| Variable |  |  |
| Algebraic expression |  |  |
| Evaluate |  |  |
| Base |  |  |
| Exponent |  |  |
| Power |  |  |
| Translate |  |  |

Seven to the first power means 71

34 34 34

3x – 2

Find y – 1 when y = 5

x

Seven to the first power means 71

34 34 34

3x – 2

Find y – 1 when y = 5

x

numbers, variables, and operations

the small raised number that tells how many times to multiply

the value that is multiplied by itself

the base and the exponent together

symbol used for an unknown number

change from words to symbols

put the number in for the variable and simplify

numbers, variables, and operations

the small raised number that tells how many times to multiply

the value that is multiplied by itself

the base and the exponent together

symbol used for an unknown number

change from words to symbols

put the number in for the variable and simplify

Station 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Practice Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hr. \_\_\_\_\_\_\_\_\_

1. In the power x2,
   1. What is the base? \_\_\_\_\_\_\_\_\_\_\_
   2. What is the exponent? \_\_\_\_\_\_\_\_
   3. Evaluate the expression when x = 3.
2. Evaluate the following algebraic expressions.
   1. 15x when x = 4
   2. 5 + m when m = 7
   3.  when x = 3
   4. x – 8 when x = 20
3. Write the power in words and as a product.
   1. 124 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_
   2.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_
4. Evaluate the expressions.
   1. 15
   2. x2 when x = 5
   3. xy when x = 2 and y = 7

Station 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Practice Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hr. \_\_\_\_\_\_\_\_

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   1. what is the base? \_\_\_\_\_\_\_\_\_\_\_
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   2.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_
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   2. x2 when x = 5
   3. xy when x = 2 and y = 7

Station 1 Name: \_\_\_\_KEY\_\_\_\_\_\_\_\_\_\_\_\_\_

Practice Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. In the power x2,
   1. what is the base?

\_\_\_\_\_\_**X\_**\_\_\_\_

* 1. What is the exponent?

\_\_\_\_\_**2**\_\_\_

* 1. Evaluate the expression when x = 3.

**32 = 33 = 9**

1. Evaluate the following algebraic expressions.
   1. 15x when x = 4  
      **154 = 60**
   2. 5 + m when m = 7  
      **5 + 7 = 12**
   3.  when x = 3  
      **24/3 = 8**
   4. x – 8 when x = 20  
      **20 – 8 = 12**
2. Write the power in words and as a product.
   1. 124 \_\_\_\_\_**twelve to the fourth power**\_\_\_\_\_\_\_ \_\_\_**12  12  12  12**\_\_\_\_
   2.  \_\_\_\_**One – half squared**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ****
3. Evaluate the expressions.
   1. 15
   2. x2 when x = 5
   3. xy when x = 2 and y = 7

**1  1  1  1  1 = 1 5  5 = 25 2  7 = 14**