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UNIT 6 LESSON 3

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| AIM: | SWBAT understand expressions |

**THINK ABOUT IT!**

When you take a taxi, the driver charges an initial fee when you start a ride and then an additional charge for every mile driven in the cab. Lisa is taking a taxi to the airport. When she gets in the taxi, the meter already shows a fee of $3.50. After every mile, the cost of the ride increases by another $0.50. Lisa figures that she can use the expression **0.5m + 3.5** to find the total cost of her trip to the airport.

The table shows how much it would cost her to travel 0, 1, and 2 miles in the taxi using the expression **0.5m + 3.5**.

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| --- | --- | --- |
| Number of miles traveled | Calculating Total Cost | Total cost |
| 0 | 0.5m + 3.5  0.5 x 0 + 3.5 | $3.50 |
| 1 | 0.5m + 3.5  0.5 x 1 + 3.5 | $4.00 |
| 2 | 0.5m + 3.5  0.5 x 2 + 3.5 | $4.50 |

In the expression, 0.5m + 3.5, what do 0.5, m, 3.5, and 0.5m represent in the problem context? Explain how you know.

0.5: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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m: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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3.5: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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0.5m: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Key Point

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**Definitions:**

* **Variable:** a letter that represents a value
* **Coefficient:** the factor multiplied by the variable in an algebraic expression. For example in the expression 4a, 4 is the coefficient
* **Term:** A known number, a variable, or the product of a known number and variable(s) that make up an expression.
* **Constant:** A fixed value or number that stands on its own

**Interaction with New Material**

Ex. 1) Every day, Jeff runs with his dog to keep in shape. He always runs 3 miles in the morning and 5 miles at night. He is able to run each mile in the same number of minutes (m). He always takes one 20-minute break at night to play catch with his dog. The expression

8m + 20 represents the total number of minutes Jeff spends with his dog each day.

Identify the terms in the context and explain what they represent mathematically and in the context of the problem.

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**PARTNER PRACTICE**

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| *Bachelor Level* |

1. In the expression n + 5, identify the following:
   1. Constant:
   2. Coefficient:
   3. Terms:
   4. Variable:
2. Javier had 4 more than three times the number of cookies, c, that Lucas had. This is represented by the expression 3c + 4

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. What number or letter represents the constant? \_\_\_\_\_\_\_\_\_\_\_\_\_
  2. What number of letter represents the coefficient? \_\_\_\_\_\_\_\_\_\_\_\_\_
  3. What number or letter represents the variable? \_\_\_\_\_\_\_\_\_\_\_\_\_
  4. In the context of this problem, what does the variable represent?

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| *Master Level* |

1. How many terms are there in the expression 2n + 4? How do you know?

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**INDEPENDENT PRACTICE**

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| *Bachelor Level* |

1. In the expression 2 ½ + 12.5y, identify the following:
2. Constant:
3. Coefficient:
4. Terms:

Variable:

If Julia has been measuring her height for the last y years since she was 6 and she has been growing at a steady rate each year in inches, what does the constant represent in the expression: 2.5y + 48. Explain.

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| *Master Level* |

1. Michael and 6 friends went to the movies. There, they each bought movie tickets and a bag of popcorn to share among them all. Michael used the expression

7t + 4.50 to find the total cost.

* 1. What does the variable represent in the expression? Explain.

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* 1. What does the constant represent in the expression? Explain.

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* 1. What does the coefficient represent in the expression? Explain.

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1. The expression 0.50 + 2.25R represents the cost of a metro card to ride the NYC subway. What could the constant possibly represent in this context?
2. The cost per ride on the subway
3. The number of rides that the card is good for
4. The total cost of the metro card
5. The fee for purchasing a new metro card
6. Ms. Chibbaro is trying to pick a new cell phone plan for making phone calls. Each expression below represents total cost of a cell phone bill for a different cell phone company. All three companies charge a certain amount per minute. However, companies A and B have a monthly fee that is included in the cost while Company C does not.
   * + Company A: 0.10m + 25
     + Company B: 1.7m + 5
     + Company C: 1.5m
7. Based on what you see in the expressions above, what does the “m” represent?

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1. What do the coefficients in each expression represent? How do you know?

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1. What is the meaning of 25?

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1. What is the meaning of 5?

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| *PhD Level* |

6. a. Write an expression that contains a coefficient, variable, and constant.

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b. Write a word problem that can be represented using the expression you wrote.

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c. What does the constant represent? Explain.

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**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EXIT TICKET**

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| Self-assessment | I mastered the learning objective today. | I am almost there. | Need more practice and feedback. |
| Teacher feedback | You mastered the learning objective today. | You are almost there. | You need more practice and feedback. |

1. Use the expression: 9n + 5. Read each statement below and decide if it accurately represents the expression. Select “Yes” or “No.”

|  |  |  |
| --- | --- | --- |
| Statement | Yes | No |
| n is the variable |  |  |
| 9 is the constant |  |  |
| 5 is the constant |  |  |
| 9 is the coefficient |  |  |

2. Chris had a bag of jelly beans with a certain number of jelly beans in it. His sister Jennifer also has a bag of jelly beans with more jelly beans than her brother. The expression 2c represents the number of jelly beans in Jennifer’s bag, with *c* representing how many jelly beans her brother has. Which of the following statements best describes what the 2 represents in the context of the problem.

a. The number of jelly beans that Chris has

b. The number of jelly beans that Jennifer has

c. The difference between the number of jelly beans that Chris has and that Jennifer has

d. The value that you would multiply the number of jelly beans that Jennifer has to get the number of jelly beans that Chris has

3. When you take a taxi, the driver charges an initial fee when you start a ride and then an additional charge for every mile driven in the cab. If the total fare for a cab ride is 3.5m + 2.5 after riding for m miles, what does the 2.5 represent? Explain (use appropriate math vocabulary in your explanation).

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