

Evaluating Expressions

In this task, you and your partner will evaluate expressions for given values, translate between verbal and symbolic algebraic expressions and equations, and generalize an algebraic expression for various problems.

Task Card 1

You and your neighbor will watch the following video. Be sure to take notes for your interactive notebook.

BrainPOP : equations with variables

Log in: Dolvines

Password: d0lphin

Task Card 2

Copy these vocabulary words with their sign, into your interactive notebook:

- Add + Plus +
- Sum + Total +
- Increased by + More Than +
- Product \times Times \times
- Multiply \times Of \times
- Minus $-$ Difference $-$
- Subtract $-$ Less than $-$
- Decreased by $-$ Quotient \div
- Divide \div

Task Card 3

Write this problem down on a piece of paper, and solve with your partner:

Mrs. Scaff's Math class is planning a trip to the Movie Park. They are willing to do a car wash to earn money for the trip. It will cost \$10 for the school bus and the price of a ticket is \$13 dollars per student.

1. What will determine the amount of money the class will have to make?



Task Card 4

2. How will the number of students effect the price?
3. Write an expression to show how to find the amount of money Mrs. Scaff's class will need to earn for the trip.
4. If only 10 students go, what is the total price?
5. If all 30 students go, what is the total price?



Task Card 5

Now, watch this video with your partner:

<http://studyjams.scholastic.com/studyjams/jams/math/algebra/creating-equations.htm>

Make sure you do the “test yourself” sections in the video

Task Card 6

Mrs. Jones drives 55 km a day for work. How many km will she drive in 2 days?

6. Write an expression to represent the number of km she will drive in d days. Now solve it if $x=2$ days.
7. How many km will she drive in 5 days?
8. How many km will she drive in 10 days?



Task Card 7

Copy this problem on to your sheet and solve.

9. Sean's father is working on a crew that will build a skyscraper. He found out that each story is 13 ft tall. How tall, in feet, would the skyscraper be if it were:

- a. 55 floors?
- b. 65 floors?
- c. 75 floors?



Task Card 8

You and your partner **CONSTRUCT** (level 4) a word problem, and then write an equation for it and solve.

Use the rubric on task card 9 to guide you.

Task Card 9

	0	1	2
Accuracy / Terminology	Concepts are not explained accurately.	Concepts are explained accurately but specific vocabulary is not used.	Concepts are explained accurately AND specific vocabulary is used.
Supporting Details	Problem is missing a topic sentence or does not have details to support the claim.	Problem includes a topic sentence AND details that begin to support the claim.	Problem includes a topic sentence AND details that fully support the claim.
Written Expression	Problem is not clearly written or contains errors in grade level conventions that interfere with understanding. (0)	Problem is clearly written but has some errors in grade level conventions that do not interfere with understanding. (1/2)	Problem is clearly written with no errors in grade level conventions. (1)