

Name: _____
Ms. Napolitano

Date: _____
Lesson 15

Topic: Numerical Expressions

Homework

EXPRESSIONS AND EQUATIONS (6.EE.1)

Write and evaluate numerical expressions involving whole-number exponents.

1. Evaluate:

$$5^3 + 6 \times 3$$

2. Amber sends a text message to 4 people and those 4 people send the text message to 4 more people, and so on. Write an expression to show the number of people who will receive the text message after the fifth round.

3. $(35+20) \div 5 + 3^2$

4. Write the expression $7 \times 7 \times 7 \times 7 \times 7 \times 7$ in exponential form.

5. Consider the expression: $(32 \div 4) \cdot 2 - 6 + 3^2$. Explain the order of operations you would use to simplify this expression. Then simplify it.

EXPRESSIONS AND EQUATIONS (6.EE. 2)

Write, read, and evaluate expressions in which letters stand for numbers.

1. Which expression represents the phrase below?

7 less than the product of 4 and a number, x

2. What is the value of the expression below when $c = 5$ and $d = 4$?

$$5c^2 - 4d + 7$$

3. The distance from Hailey's house to the shopping center is 2.5 miles more than the distance from Hailey's house to the movie theater. Let m equal the distance from Hailey's house to the movie theater. Write an expression to represent the distance from Hailey's house to the shopping center.

4. The new post office has an area that is 3.9 times the area of the old post office. Let p represent the area of the old post office. Write an expression to represent the area of the new post office?

5. The table shows the time Mr. Levy spent tutoring two of his students and how much he was paid. Write an expression to show how much Mr. Levy will earn in h hours. How many hours must Mr. Levy tutor to earn \$48? Justify your answer.

Mr. Levy's Tutoring		
	Hours	Pay
Carlene	4	\$32
Albert	7	\$56