

Warm Up:

1. $(-1) + (-17)$
2. $21 - 13 + (-4)$
3. $-8 - (-7) - (-2)$

Speak Like A Mathematician:

numerical expression:

exponent:

base:

evaluate:

Example 1: Translate a Verbal Expression

- one plus eight divided by three
- seven times fifteen minus two times nine
- twelve less than two times five

Example 2: Translate a Verbal Expression with Grouping

- the sum of five and nine divided by two
- eight less than the product of six and four
- nine times the difference of 8 and 3.

Example 3: Write a Numerical Expression

- A person's handicap in bowling is usually found by subtracting the person's average from 200, multiplying by 2, and dividing by 3. Marley's bowling average is 170. Write a numerical expression for Marley's handicap in bowling.

- To convert a temperature in degrees Celsius to degrees Fahrenheit, multiply the temperature in degrees Celsius by 9, divide by 5, and add 32. Write a numerical expression to convert 37 degrees Celsius to Fahrenheit.

Example 4: Evaluate Expressions

Evaluate each expression.

- 2^4

- 4^5

Tonight's Homework:

Day 2

Example 5: Order of Operations (GEMS)

Evaluate each expression.

- $20 - 7 + 8^2 - 7 * 11$
- $\frac{(4+5)^2}{3(7-4)}$
- $15 - [10 + (3 - 2)^2] + 6$
- $\frac{2^3-5}{15+9}$

Example 6: Write and Evaluate Expressions

- Thursdays are Student Days at LSC Theaters. Student tickets are \$5 and popcorn refills are free. You will buy a ticket and a 20-ounce bottle of pop (\$5), and you will split the cost of a large tub of popcorn (\$7.50) and large candy (\$3.50) with a friend. Write an expression, then evaluate it to find out how much money you should bring.
- While she was on a 7-day vacation, Ms. Hernandez boarded her dog at a kennel. If her boarding budget is \$250, can Ms. Hernandez afford a daily extra walk and one wash and nail trimming? Explain.

Service	Cost
Board	\$24 per day
Wash	\$45
Extra Walk	\$4 per day
Nail Trimming	\$12
Vitamins	\$1 per day

Tonight's Homework: