

**1<sup>st</sup> 5**

Translate each of the following verbal expressions or equations into a mathematical expression.

1. ten more than twice a number
2. the product of a number and five.
3. twice the difference of a number and 3
4. five less than six times a number
5. the difference of a number and 3, divided by 4
6. six times the sum of a number and 2

Equations Day 8

**Consecutive Integer Problems**

- Consecutive Integer Problem
  - The sum of three consecutive integer is 48.
    - Define a variable for one of the integers.
    - Write an expression for the other two integers
    - Write and solve and equations to find the three integers.

Equations Day 8

- Consecutive Integers
  - $n, (n + 1), (n + 2), (n + 3), \dots$
- Odd/Even Consecutive Integers
  - $n, (n + 2), (n + 4), (n + 6), \dots$

Equations Day 8

- Consecutive Integer Problem
  - The sum of three consecutive integers in 147. Find the integers.

Equations Day 8

- Consecutive Integer Problem
  - The sum of three consecutive odd integers is 159. Find the integers.

Equations Day 8

- Real – World Problem Solving
  - A gardener is planning a rectangular garden area in a community garden. His garden will be next to an existing 12-ft fence. The gardener has a total of 44 ft of fencing to build the other three sides of his garden. How long will the garden be if the width is 12 ft.



Equations Day 8

- Defining One Variable in Terms of Another
  - The length of a rectangle is 6 inches more than its width. The perimeter of the rectangle is 24 inches. What is the width of the rectangle.

Equations Day 8

- Defining One Variable in Terms of Another
  - The width of a rectangle is 2 cm less than its length. The perimeter of the rectangle is 16 cm. What is the width and length of the rectangle.

Equations Day 8