

Math 6 & 7 Summer Assignment 2021-2022 School Year

Directions: Solve the following without a calculator. Show ALL work! (You may need extra paper.)

Part 1 - Positive and Negative Integers (Order of Operations)

| a. (14 - 9)2- 27 | b57 21 |
|------------------|-----------------|
| c27 (-358) | d25 (-423) + 89 |

Part 2 - Expressions

Directions: Write an expression.

| a. 5 times a number minus 2 | | b. a number squared plus 4 | | |
|-----------------------------|---------------------------------|--|--|--|
| C. | the quotient of 25 and a number | d. the product of 8 and a number plus 12 | | |

Directions: Simplify the expression. Show ALL work! (You may need extra paper.)

| a. 7s + 2 + 8s - 12 | b. x x 5 x | c. 3(a + b - 2) | |
|---------------------|----------------|--------------------|--|
| d. 0.02x + x | e. 13(6w - 12) | f1.3a + 0.5 - 2.6a | |

Directions: Factor the expression. Show ALL work!

| a. 7x + 14 | b. 15 - 5y |
|-----------------|-------------|
| c. 21a + 2b - 9 | d. 2x2 + 6x |

Directions: Solve the expression without a calculator. Show ALL work!

| a. | 65n 3 | when | n =- 5 | b. 40 - 8x | when | x = 2 |
|----|------------|------|---------|-------------|------|-------|
| e | . 7(a - 5) | when | a = -13 | f. 3x2 + 7x | when | x = 3 |

Part 3 - Area, Surface Area, and Volume

Directions: Solve the following without a calculator. Show ALL work! (You may need extra paper.)





Calculate the area:

Calculate the perimeter:

Part 4 - Graphing

Directions: Solve the following without a calculator. Show ALL work! (You may need extra paper.)

