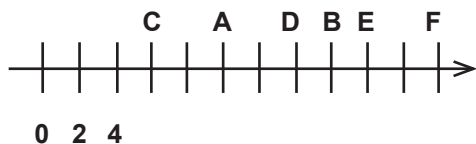




Workout Section

1. Determine the Greatest Common Factor of the numbers 24, 76 and 44.
2. Determine the Least Common Multiple of the numbers 18 and 42.
3. For Malory's birthday party, her mother will be giving out loot bags to all of the children that will be attending. Her mother bought 120 tootsie rolls, 88 scratch and sniff stickers and 48 glow sticks. If Malory's mother fills the loot bags equally with all of the stuff that she bought, what is the maximum number of children that could attend Malory's birthday party if every guest received a loot bag? How many of each item will each loot bag contain?
4. Determine the Greatest Common Factor of the numbers 21, 48 and 90.
5. Determine the Least Common Multiple of the numbers 10, 25 and 35.
6. List the Natural Numbers that are less than or equal to 5.
7. On the following number line below, determine the abscissa of the given points A, A, C, D, E and F.



8. Given the following set of numbers below, which ones are from the set \mathbb{N} , natural numbers?

$$S = \left\{ -5, \frac{-5}{6}, \frac{-8}{10}, 1, 0.2, 2, 2.5, 20 \right\}$$

9. Round the number 5455 to the nearest thousand.
10. Write the inequality that corresponds to the statement "x is less than or equal to 50".
11. Express the following power as a product of factors.

$$7^9 = ?$$

12. Write the following product using Exponential Notation.

$$(4)(4)(4) = ?$$

13. Find the value of the Natural Number x in the equation below.

$$2^x = 8$$

14. Express the number 343 as a power of 7.
15. Calculate the power.

$$3^0 = ?$$

16. Find two natural numbers whose product is 50 and whose sum is 27.
17. State the property of multiplication illustrated in the following equation.

$$7 \times 8 = 8 \times 7$$

18. State the property of multiplication illustrated in the following equation.

$$10 \times (2 + 1) = 20 + 10$$

19. Find two natural numbers whose product is 20 and whose sum is 9.

- 20.** Use the properties of multiplication to perform the following calculation.

$$13 \times 12 \times 10 \times 9 \times 0 = ?$$

- 21.** Determine the value of the Natural Number x in the equation below,

$$x^2 = 169$$

- 22.** Determine the value of x in the equation below,

$$(\sqrt{7})^2 = x$$

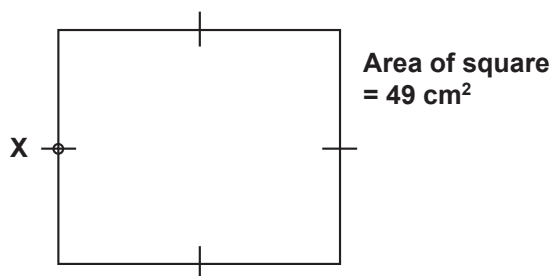
- 23.** Determine the value of the following square root,

$$\sqrt{144} = ?$$

- 24.** Calculate the following subtraction,

$$\sqrt{49} - \sqrt{25} = ?$$

- 25.** Calculate the side length of the following square, given the information below.



- 26.** Use the properties of addition to evaluate the following expression, given $a = 21$, $b = 11$, and $c = 19$

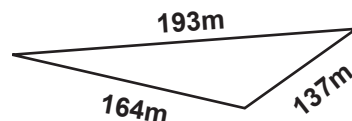
$$b + (a + c) = ?$$

- 27.** State the property of addition illustrated in the following equation.

$$6 + 9 = 9 + 6$$

- 28.** Chris has just returned from a Star Trek convention and has brought back some souvenirs for himself and his family. He bought a Mr. Spock action figure for \$59, a remote control U.S.S. Enterprise for \$712 and a full Captain Kirk custom fit uniform for \$605. What was the total cost of his purchases?

- 29.** Use the properties of addition to calculate the perimeter of the triangle below.



- 30.** State the property of addition illustrated in the following equation.

$$15 + (0 \times 3) = 15$$

- 31.** Which of the following numbers are prime numbers?

$$S = \{7, 8, 9, 10, 11\}$$

- 32.** Write the Natural Number 136 as a product of prime factors using exponential notation.

- 33.** Write 180 as the product of its prime factors.

- 34.** Which of the following numbers are composite numbers?

$$S = \{109, 111, 120, 125, 131, 137\}$$



35. Which three prime numbers have a product of 385?

36. Which of the following numbers are divisible by 9?

$$S = \{180, 213, 413, 521\}$$

37. Which of the following numbers are divisible by 25?

$$S = \{143, 221, 500, 925\}$$

38. Which of the following numbers are divisible by 8?

$$S = \{64, 131, 120, 282\}$$

39. Which of the following numbers are divisible by 6 and 9?

$$S = \{36, 108, 136, 221\}$$

40. Which of the following numbers are divisible by 2 and 9?

$$S = \{36, 126, 135, 222\}$$

41. Calculate the value of the chain of operations below.

$$1^4 \times 5 + 50^\circ \times 10 = ?$$

42. Calculate the value of the chain of operations below.

$$12 \div 3 + 2 \times 11 = ?$$

43. Calculate the value of the chain of operations below.

$$30 + 20 \div 2 = ?$$

44. Calculate the value of the chain of operations below.

$$[(2 + 2^4 \times 4)] \div [10 \div (4 - 4^\circ \times 3)] = ?$$

45. Calculate the value of the chain of operations below.

$$[(2 + 4) \times 5 - 4] \div (1 + 1) = ?$$

46. Find the value of x in the following equation.

$$\frac{x}{11} = 12$$

47. Find the value of x in the following equation.

$$x - 12 = 6$$

48. Find the value of x in the following equation.

$$4x = 20$$

49. Find the value of x in the following equation.

$$x - 2 = 8$$

50. Find the value of x in the following equation.

$$11 + x = 7 - x$$