1. Write the numbers in the following examples using the proper signs (+/-).
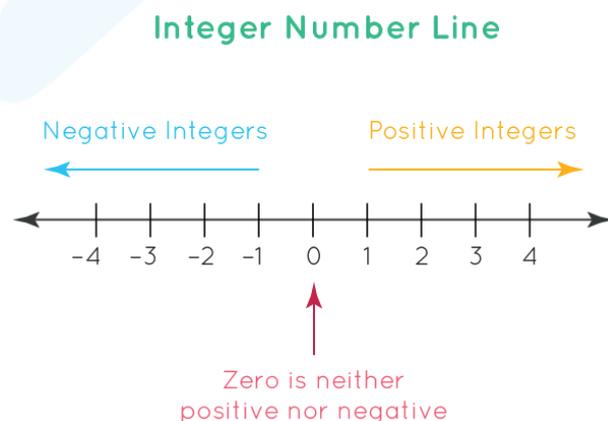
i) A submarine is at a depth of 512 metres below sea level.
ii) The height of Mt. Everest, the highest peak in the Himalayas, is 8848 metres.
iii) A kite is flying at a distance of 120 metres from the ground.
iv) The tunnel is at a depth of 2 metres under the ground.

2. Write down a pair of integers whose
i) Sum is -1
ii) Difference is 0
iii) Sum is -4
iv) Difference is 3

3. Use the given integer number line to write a negative integer and a positive integer whose:
i) Sum is -6
ii) Difference is -4
iii) Product is 10
iv) Quotient is -1

Integer Number Line

Negative Integers   Positive Integers

⟵————————————   ————————————⟶

⟵———|———|———|———|———|———|———|———|———|———⟶
    -4 -3 -2 -1   0   1   2   3   4

Zero is neither
positive nor negative

4. The box given below contains some integers. Choose any 2 pairs and carry out two multiplications with those numbers. Now, choose two other pairs and carry out divisions with these numbers.

5. Two churches are situated 8 m above the sea level and 19 m below the sea level respectively. What is the distance between the levels of two churches?

6. Find the value of each of the following products.
i) (0) × -15
ii) 4 ×(-1)
iii) (-3)×(-2) × 5
iv) 2 × (-8) × (-1)
v) (-8) × (-4) × 0

7. Verify the following:
i) (-1) [(-1) + (-1)] = [(-1) (-1)] + [(-1) (-1)]
ii) (-2) [(-3) + 5] = [-5 (-2)] + [(-3) 2]

8. Find the integer x if product of x with
i) 1 is 200
ii) 600 is -1
iii) -3 is 0
iv) 62 is -62

9. In the Math test you took, (+5) marks are given for every correct answer and 2 marks are deducted for every incorrect answer. You were able to get 15 answers correct out of 18 questions on the test! What will be your score?

10. Use >, < OR = symbols in the blank space in each of the following.
i) (-3) - (-5) ___ (-4) + (-9)

ii) 7 -2 - 3 ___ 7 - 2 + 8

iii) 9 + (-5) – (8) ___ 7 + (-1) - (+8)

iv) 2 + (-8) - 7 ___ 9 - 3 + 2

11. A bird descends at the rate of 10 ft/min. How long will it take for the bird to reach the ground if it is flying at 300 ft high in the sky?

12. The Indus Valley Civilization began in 7000 BC and came to an end in 1900 B.C. How long did it last?

13. Metal Gallium is a liquid at room temperature. Its melting point is 29.76 °C. The freezing point of water is 0°C. How much warmer is the melting point of Gallium than the freezing point of water?

14. City X is located at 290 feet above the sea level. Another city Y is 102 feet below the sea level. What is the level difference between these two cities?

15. Four friends went for a trip. They had spent $1900 for the trip. The friends agreed to equally share the expenses.
What integer will represent how much each person will have to pay?

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ANSWERS

1. i) -512 ii) +8848 iii) +120 iv) -2	6. i) 0 ii) -4 iii) 30 iv)16 v) 0	11. 30 minutes
2. i) 1 and -2 ii) 2 and -2 iii) 8 and -12 iv) -5 and -8	7. i) LHS = RHS ii) LHS ≠RHS	12. 5,100 years
3. i) -10 and 4 ii) -2 and 2 iii) -5 and 2 iv) -3 and 3	8. i) $x = 100$ ii) $x = \dfrac{-1}{600}$ iii) 0 iv) -1	13. 29.76 degree celsius
4. +9 ✕-8 = -56 -8 ✕-13 = -21 -27 ÷ +9 = -3 -24 ÷ -8 = 3	9. 48 marks	14. 392 feet feet
5. 27 m	10. i) > ii) < iii) < iv) =	15. $450

FUN FACT

1. An integer can be negative, zero or positive.

2. A number if expressed in a fractional form is not an integer.

3. There are infinite real numbers between any two integers.