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## Integers Worksheet

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

2. Find the value of each of the following products.

i)  $(0) \times -15$

ii)  $4 \times (-1)$

iii)  $(-3) \times (-2) \times 5$

iv)  $2 \times (-8) \times (-1)$

v)  $(-8) \times (-4) \times 0$

3. Find the integer  $x$  if product of  $x$  with

i) 1 is 200

ii) 600 is -1

4. Verify the following:

$$(-1) [ (-1) + (-1) ] = [ (-1) (-1) ] + [ (-1) (-1) ]$$

5. 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.

6. Use  $>$ ,  $<$  OR  $=$  symbols in the blank space in each of the following.

i)  $(-3) - (-5)$  \_\_\_  $(-4) + (-9)$

ii)  $7 - 2 - 3$  \_\_\_  $7 - 2 + 8$

7. The box given below contains some integers.

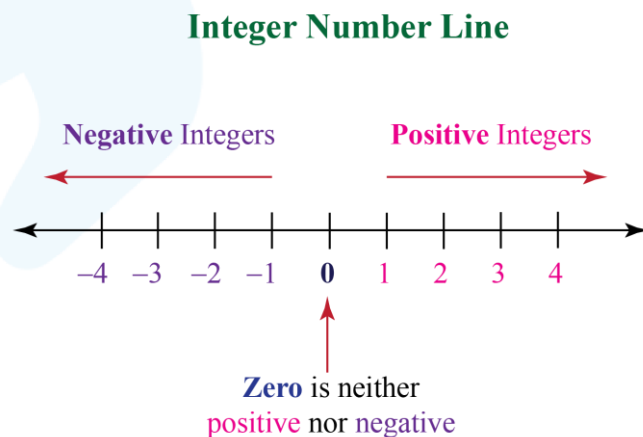
Choose any 2 pairs and carry out two multiplications with those numbers. Now, choose two other pairs and carry out divisions with these numbers.

+9   -8   -3   -7   -8   -4

8. Use the given integer number line to write a negative integer and a positive integer whose:

i) Sum is -6

ii) Difference is -4



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. Write down a pair of integers whose:

i) Sum is -1

ii) Difference is 0

iii) Sum is -4

iv) Difference is 3



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- Barbara Cabrera

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**ANSWERS**

1)	27 m
2)	i) 0 ii) -4 iii) 30 iv) 16 v) 0
3)	i) 200 ii) $\frac{-1}{600}$
4)	LHS: $(-1) [ (-1) + (-1) ] = 2$ RHS: $[ (-1) (-1) ] + [ (-1) (-1) ] = 2$ LHS = RHS
5)	i) - 512. ii) + 8848 metres. iii) +120 metres. iv) -2 metres.
6)	i) < ii) >
7)	$+9 (-8) = 72$ $-3 (-7) = -21$  $-8 / -4 = 2$ $+9 / -3 = -3$

8)	i) $2 - 8 = -6$ ii) $4 - 10 = -4$
9)	69
10)	i) $2 - 3 = -1$ ii) $3 - 3 = 0$



## FUN FACT

- An easy trick to remember the order of PEMDAS is "Please Excuse My Dear Aunt Sally".
- Many mnemonics following order of operations are used along with PEMDAS worldwide, like BODMAS, BEDMAS, and BIDMAS.

