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Integers Worksheet

1. Write a negative integer and a positive integer whose

- i) Sum is -3
- ii) Difference is 10

2. The fish in the pond below carry some numbers. Choose any 2 pairs and carry out two multiplications with those numbers. Now, choose two other pairs and carry out divisions with these numbers.

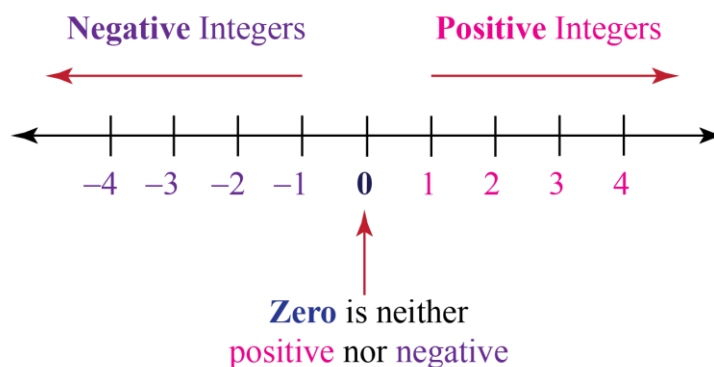
3. Fill in the blanks.

- i) $(-1) \times$ even number of times = _____
- ii) $(-1) \times$ odd number of times = _____
- iii) $(-3589) \div$ _____ = -1
- iv) _____ $\div 993 = 0$

4. Use the below given integer number line to find a pair of integers whose:

- i) Sum is -8
- ii) Difference is 0
- iii) Sum is -2
- iv) Difference is 2

Integer Number Line



5. Find the value of a if product of a with

- i) 1 is 100
- ii) 300 is -1

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

- i) $39 + (-35) - (58)$ ___ $37 + (-11) - (+26)$
- ii) $23 + (-8) - 7$ ___ $9 - 13 + 12$

7. In a Math test +2 marks are given for every correct answer and -1 mark is given for every incorrect answer. Zeel gets 10 of his answers correct out of 20 questions on the test. What will be his score?

8. The weather report suggested that your city's temperature increased from - 10 degree celsius to 40 degree celsius. What is the rise in temperature?

9. Verify the following:

- i) $(-5) \times [(-7) + (-5)] = [(-5) \times (-7)] + [(-5) \times (-5)]$
- ii) $(-7) \times [(-8) + 9] = [-7 \times (-8)] + [(-7) \times 9]$

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

- i) $(-3) \times 15$
- ii) $4 \times (-10)$
- iii) $(-3) \times (-2) \times 5$
- iv) $2 \times (-8) \times (-1)$
- v) $(-8) \times (-4) \times 0 \times (-6) \times (-8)$

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ANSWERS

1)	i) -30 ii) -80 iii) 20 iv) 14 v) 0
2)	i) $a \times -1 = 100$ $a = 100 / -1 = -100$ ii) $a \times 300 = 1$ $a = 1 \div 300 = \frac{1}{300}$
3)	LHS: $(-5) \times [(-2) + (-5)] = 35$ RHS: $[(-5) \times (-2)] + [(-5) \times (-5)] = 35$ LHS = RHS
4)	Few possible answers are given below: $+9 \times -8 = -56$ $-8 \times -13 = -21$ $-27 \div +9 = -3$ $-24 \div -8 = 3$
5)	i) $(-3) - (-5) > (-4) + (-9)$ ii) $71 - 2 - 31 < 71 - 2 + 31$ iii) $39 + (-35) - (58) < 37 + (-11) - (+26)$ iv) $23 + (-8) - 7 = 9 - 13 + 12$
6)	i) $(-1) \times$ even number of times = 1 ii) $(-1) \times$ odd number of times = -1 iii) $(-3589) \div 3589 = -1$ iv) $0 \div 993 = 0$

7)	i) -5 and 2 ii) 5 and -5. For finding the difference between two numbers, we just subtract the smaller number from the bigger one. $5 - (-5) = 10$
8)	i) Sum is -8 : -1 and -7 ii) Difference is 0 : -2 and +2 iii) Sum is -2 : 2 and -4 iv) Difference is 2 : 0 and -2
9)	Zayn scored 18 marks. Zayn answered 12 questions correctly and 6 questions incorrectly. Marks awarded for 12 correct answers: $12 (2) = 24$ Marks deducted for 6 incorrect answers: $6 (-1) = -6$ Total score of Zayn: $24 + (-6) = 18$
10)	The rise in temperature is 30 degree celsius.

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.

