

WORKSHEET 2

INTEGERS

CLASS: VII

DATE: 25-04-2024

HOTS

1. A Submarine left the surface of water at the rate of -2 meters per second. At that rate, how long would it take the submarine to reach -60 meters level?
2. Mt. Everest is at a height of 8850 m. Its base is at an elevation of 5400m. The temperature here drops at the rate of 1 degree Celsius per 100 meters. If the temperature at the base is -5°C , what is the temperature at the top?
3. A tanker contains 500 litres of milk. Due to small hole in the tanker, the quantity of milk is decreasing at the rate of 9 litres per hour. What will be the quantity of milk after 12 hours?
4. Reena climbs up 5 stairs every second and then climbs down 3 stairs over the next second. How many seconds will she take to climb 60 stairs?
5. Add the additive inverse of $(-12 + 16 - 42 \div 3 \text{ of } 7)$ to the product of $-2, -3, -4$.

M.C.Q

1.	-35×107 is not same as			
	(a) $-35 \times (100+7)$	(b) $(-35) \times 7 + (-35) \times 100$	(c) $(-35) \times 7 + 100$	(d) $(-30-5) \times 107$
2.	The value of $(-5) \div (-1)$ does not lie between			
	(a) 0 and -10	(b) 0 and 10	(c) 3 and 10	(d) -7 and +7
3.	Which of the following is not the additive inverse of a?			
	(a) $-(-a)$	(b) $-a$	(c) $a \times (-1)$	(d) $a \div (-1)$
4.	Which property can we use to find the result of $(-33) \times 102 + (-33) \times (-2)$?			
	(a) associative	(b) closure	(c) distributive	(d) commutative
5.	If a and b are two integers, then which one of the following may not be an integer?			
	(a) $a + b$	(b) $a - b$	(c) $a \times b$	(d) $a \div b$
6.	The deep freezer of a sweet shop should be set at -12°C . But it is set at -18°C by mistake. What is the difference between these temperature settings?			
	(a) 30°C	(b) -6°C	(c) 6°C	(d) -30°C
7.	Which one of the following expressions checks the solution to the division problem $(-10) \div (-5) = 2$?			
	(a) $2 \times (-10)$	(b) $2 \times (-2)$	(c) $2 \times (-5)$	(d) $(-10) \times (-5)$
8.	Which of the following does not represent an integer?			

	(a) $0 \div 7$	(b) $20 \div (-4)$	(c) $(-9) \div 3$	(d) $(-12) \div 5$
9.	If we multiply any integer by (-1) , we will get			
	(a) additive identity	(b) multiplicative identity	(c) multiplicative inverse of the number	(d) Additive inverse of the number
10.	If 5 integers are multiplied and the product is negative , then which of the following statements could not be true about integers?			
	(a) 3 are negative, 2 are positive	(b) 2 are negative, 3 are positive	(c) 4 are positive and 1 is negative	(d) all 5 integers are negative