INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics

Integers– *Worksheet (DTQ)*

Descriptive Questions-Short Answer Type (2 marks each)	
Q1.	Find the value: a) (–120) + 45 – 35 b) 76 + 18 – (– 80) – 74
Q2.	Find the product: a) 12 × (–5) × (– 10) b) (–70) × (–30) × (–5)
Q3.	Write a pair of negative integers whose a) sum is – 10 b) Difference is –10
Descriptive Questions- Long Answer Type 1 (3 marks each)	
Q4.	A scuba diver descends 10 m down the water from a boat on the surface of a lake. He then rose 8 m and then again descends 5 m down the water. What is his present depth from the surface of the water.
Q5.	The temperature of a city is 4 °C on Sunday. The next day if the temperature falls by 5°C and on Tuesday it increases by 3 °C, find the temperature of the city on Tuesday.
Q6.	Solve using suitable properties: a) 72 × 75 + 72 × 25 b) (–57) × 98 c) 96 + 158 + 104 + 42
Q7.	Evaluate the following: a) (–25) × (– 75) b) (–325) ÷ (– 13) c) {(–50) +(–6)} ÷ {(–8 +1)}
Q8.	Hima burnt 300 calories working on the treadmill. But later she had a pizza and she gained a calorie count of 400. Did she gain or lose calories?

Q9.	In a test, (+5) marks were given for every correct answer and (–2) marks were given for every incorrect answer and 0 marks for an attempted question. Rahul gets 5 correct answers and 4 incorrect answers out of given 10 questions. a) What is Rahul's score? b) How many marks did he score for correct answers? c) How many questions did he leave without attempting?
Q.10	A group of hikers is descending the mountain at a rate of 200 m per hour. If they start from a height of 1200 m above sea level, how much time will they take to reach the foot of the mountain?
Q 11	State whether the following statements are always true, sometimes true , or always false. a) If a positive integer is subtracted from a negative integer, the answer is always negative. b) If a positive integer is subtracted from a positive integer, the answer is always positive. c) If a negative integer is subtracted from a positive integer, the answer is always positive.
Descriptive Questions Long Answer Type 2 (4 marks each)	
Q.12	Evaluate a. (-100) ÷ 5 b. (-36) ÷ (-4) c. (0) ÷ (-12) d. [(-30) ÷5] ÷2
Q.13	In a test (+3) marks are given for every correct answer and (-1) marks are given for every incorrect answer and 0 mark for not attempting a question. i) Anoop answered all the questions and scored 14 marks and get 6 correct answers. ii) Jay also answered all the questions and scored (-2) marks though he got 2 correct answers. How many incorrect answers had they attempted?
Q.14	Verify the following a. (-22) × [(-4) + (-5)] = [(-22) × (-4)] + [(-22) × (-5)] b. (-12) × [(3) + (-9)] = [(-12) × (3)] + [(-12) × (-9)]
Q.15	Fill in the blanks i. Sum of integer and its additive inverse is _____ ii. Sum of – 32 and –26 is _____ iii. - 36 ÷ (_____) = - 9 iv. Integers are closed under addition, multiplication and _____.

Answers	**1a**	- 110	**1b**	100	**2a**	600	**2b**	-10500
	3	a)(-6, -4) b)(-17,7)	**4**	- 7	**5**	2°C	**6**	a) 7200 b) 5586 c) 400
	7	a)1875 b)25 c)8	**8**	300 - 400 =-100 100 calories lose	**9**	a)17 b)25 c)1 question	**10**	6 hours
	11	a) always true b) sometimes true c) always true	**12**	a) -20 b) 9 c) 0 d) -3	**13**	i)6x3+(-1)x4=14 4 incorrect ii) -2	**14**	a) Verify that LHS = 198 = RHS b) Verify that LHS = 72 =RHS
	15	i)0 ii) -58 iii)4 iv)subtraction						

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