

INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics (2022-23)

Worksheet DTQ – INTEGERS

SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)							
Q1.	Akhil is standing in the middle of a bridge which is 20 m above the water level of a river. If a 35 m deep river is flowing under the bridge, then find the vertical distance between the foot of Akhil and bottom level of the river.						
Q2.	Find the odd one out of the four options given below:						
	(a) $(-3, -6)$ (b) $(+1, -10)$ (c) $(-2, -7)$ (d) $(-4, -9)$						
Q3.	Verify: $(-18) \times [(-6) + (-7)] = [(-18) \times (-6)] + [(-18) \times (-7)]$						
Q4.	If \otimes , Θ , O, and \cdot represent some integers on number line, then write the descending order of these numbers.						
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	< + i + ī + + ī + + i + →						
	0						
Q5.	A boy standing on the third stair on a staircase goes up by five more stairs. Which stair is he standing at now? At which step will he be after he comes down by 2 stairs?						
Q6.	On the following number line, $(-4) \times 3$ and $(-18) \div 3$ are represented by the points A B C D E F G H I J -20 2						
Q7.	Write a pair of integers whose product is -15 and whose difference is 8.						

SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)									
Q8.	Water level in a well was 20 m below ground level. During rainy season, rain water collected in different water tanks was drained into the well and the water level rises 5 m above the previous level. The wall of the well is 1m 20 cm high and a pulley is fixed at a height of 80 cm. Raghu wants to draw water from the well. Find the minimum length of the rope that he can use.								
Q9.	The table given belo Taking sea level as Location A B C D (a) Which location i (b) Which location i (c) Arrange the loca	by shows the elevations relative to sea level of four locations. zero, answer the following questions:							
Q10.	• Evaluate: (i) $[(-136) \div 4] \div (-2)$ (ii) $[(-90) \div (-45)] - 144$ (iv) $[(-6) \div (-12)] \div [(-3) \div 2]$								
Q11.	Find the product using suitable property and state the property used: (<i>i</i>) $(-2) \times (-607) \times (-5)$ (<i>ii</i>) $(-121) \times (-78) + (-121) \times (68)$ (<i>iii</i>) $(-16) \times 102$								
Q12.	 (i) Taking today as zero on the number line, if the day before yesterday is 17th of January, what is the date 3 days after tomorrow? (ii) Find the value by suitable rearrangement: -456 + 221 - 544 + 79 								

LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)								
Q13.	In a class test containing 15 questions, 4 marks are given for every correct answer and							
	(-2) marks are given for every incorrect answer.							
	(i) Sirisha attempts all questions but only 9 of her answers are correct. What is her							
	total score?							
	(ii) One of her friends gets only 6 answers correct. What will be her score?							
Q14.	Evaluate the following, using distributive property.							
	(i) -39×99 (ii) $(-85) \times 43 + 43 \times (-115)$							
	(iii) $(-52) \times (-9) + 109 \times (-52)$ (iv) $68 \times 19 + 68$							
Q15.	A building has 25 floors above the ground level each of height 5 m. It also has 5 floors in the basement each of height 5 m. A lift in building moves at a rate of 1 m/s. If a man starts from 100 m above the ground, how long will it take him to reach at 4 th floor of basement?							

ANSWERS								
Q1.	55 m	Q2.	(d)	Q4.	0, √, ⊗, •			
Q5.	6th step	Q6.	D and G	Q7.	5, -3 and 3, -5.			
Q8.	17 m	Q9.	(i) C (ii) D <mark>(iii)</mark> A <c<b<d< th=""><th>Q10.</th><th>(i) 17 (ii) (-142) (iii) (-38) (iv) 18</th></c<b<d<>	Q10.	(i) 17 (ii) (-142) (iii) (-38) (iv) 18			
Q11.	(i)(-6070) (ii) 1210 (iii) (-1632)	Q12.	(i) 23rª January (ii) (−700)	Q13.	(i)24 (ii) 6			
Q14.	(i) (-3861) (ii) (- 8600) (iii) (- 5200) (iv) 1360	Q15.	2 minutes					