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Class :VII

Worksheet No.-1


Subject:- Mathematics


Name of the chapter :- Integers

Section A		
1	- $16 \div [8 \div (-2)]$ is equal to a) 4 b) - 1 c) - 4 d) 1	[1]
2	Find: $80 \div (-5)$ a) 16 b) 14 c) - 16 d) 15	[1]
3	If a and b are two integers, then which of the following may not be an integer? a) $a - b$ b) $a \times b$ c) $a + b$ d) $a \div b$	[1]
4	Which of the following is not the additive inverse of a? a) $a \times (-1)$ b) - a c) - (- a) d) $a \div (-1)$	[1]
5	For a non - zero integer a , which of the following is not defined? a) $0 \div a$ b) $1 \div a$ c) $a \div 0$ d) $a \div 1$	[1]
6	$(-10) \times (+9) + (-10)$ is equal to a) - 100 b) 100 c) 80 d) - 80	[1]
7	$(-25) \times [6 + 4]$ is not same as a) $(-25) \times 10$	[1]

	b) $(-25) \times 6 \times 4$ c) $(-25) \times 6 + (-25) \times 4$ d) - 250	
8	Find: $(-325) \div (-13)$ a) 25 b) - 25 c) 13 d) 15	[1]
9	Find the difference between -21°C and -9°C . a) -12°C b) -30°C c) 12°C d) 30°C	[1]
10	Which of the following does not represent an integer? a) $20 \div (-4)$ b) $(-9) \div 3$ c) $0 \div (-7)$ d) $(-12) \div 5$	[1]
Section B		
11	Fill in the blanks: $(-3) + [1 + (-8)] = [(\text{_____}) + 1 + (-8)]$	[1]
12	Fill in the blanks: $\text{_____} \div 1 = -87$	[1]
13	Fill in the blanks: $(-206) \div \text{_____} = 1$	[1]
14	State true or false: $(-237) \times 0$ is same as $0 \times (-39)$	[1]
15	State true or false: For subtraction, we add the additive inverse of the integer that is being subtracted, to the other integer.	[1]
16	State true or false: When we change the order of integers, their sum remains the same.	[1]
17	Assertion (A): Every integer is a rational number. Reason (R): An integer is a number with no decimal or fractional part, from the set of negative and positive numbers, including zero. a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true but R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.	[1]
18	Assertion (A): $15 \times 1 = 15$.	[1]

	<p>Reason (R): Any number when multiplied by 1, results in the number itself.</p> <p>a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true but R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.</p>	
19	<p>Assertion (A): $- 11 \times (- 6) = 66$.</p> <p>Reason (R): When two negative integers multiply then gives positive integers.</p> <p>a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true but R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.</p>	[1]
20	<p>Assertion (A): $a \times (b + c) = a \times b + a \times c$ is associative property.</p> <p>Reason (R): The distributive property of multiplication can be expressed under addition and subtraction.</p> <p>a) Both A and R are true and R is the correct explanation of A. b) Both A and R are true but R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.</p>	[1]
	Section C	
21	Find the product, using suitable properties: $(-17) \times (- 29)$	[2]
22	In a test (+5) marks are given for every correct answer and (-2) marks are given for every incorrect answer. Radhika answered all the questions and scored 30 marks though she got 10 correct answers.	[2]
23	By what number should - 3 be multiplied in order to produce 36.	[2]
24	Write two integers which are smaller than - 6 but their difference is greater than - 6.	[2]
25	Write two integers which are greater than - 10 but their sum is smaller than - 10.	[2]
26	By what number should we multiply - 5 so the product may be - 40?	[2]
27	Verify commutative property of multiplication if $a=2$ and $b=(- 8)$.	[2]
28	Verify that $a \div (b + c) \neq (a \div b) + (a \div c)$ for the values of a, b, and c, $a = 12, b = -4, c = 2$	[2]
29	Verify: $(-21) \times [(-4) + (-6)] = [(-21) \times (-4)] + [(-21) \times (-6)]$	[2]
30	Evaluate: $[(- 36) \div 12] \div 3$	[2]
	Section D	
31	In a class test (+ 3) marks are given for every correct answer and (-2) marks are given for every incorrect answer and no marks for not attempting any question. .Mohini scores -5 marks in this test, though she has got 7 correct answers. How many questions has she attempted incorrectly?	[3]
32	In a class test (+ 3) marks are given for every correct answer and (-2) marks are given for every incorrect answer and no marks for not attempting any question. .Radhika scored 20 marks. If she has got 12 correct answers, how many questions has she	[3]

	attempted incorrectly?	
33	Find the product, using suitable properties: $8 \times 53 \times (-125)$	[3]
34	Find the product, using suitable properties: $(-57) \times (-19) + 57$	[3]
35	Are $\{29 + (59 + 19)\}$ and $\{(29 + 59) + 19\}$ equal? What do you come to know from the result?	[3]
	Section E	
36	Suppose we represent the distance above the ground by a positive integer and that below the ground by a negative integer. Answer the following: <ol style="list-style-type: none"> An elevator descends into the mine shaft at the rate of 9 meter per minute. What will be its position after an hour? If it begins to descend from 20m above the ground, what will be its position after 55 minutes? 	[5]
37	Remembering that 1AD came immediately after 1BC, while solving these problems take 1BC as - 1 and 1AD as +1. <ol style="list-style-type: none"> The Greece - Roman era, when Greece and Rome ruled Egypt started in the year 330BC and ended in the year 395AD. Find the difference in this era ? Greek mathematician Archimedes lived between 287BC and 212BC and Aristotle lived between 380BC and 322BC. Compare their period? 	[5]
38	Write a pair of integers whose difference gives <ol style="list-style-type: none"> Negative integer An integer smaller than both the integers An integer smaller than only one of the integers An integer greater than both the integers 	[5]
	Section F	
39	<p>Read the text carefully and answer the questions: In a class test (+3) marks are given for every correct answer and (- 2) marks are given for every incorrect answer and no marks for</p>  <p>not attempting any question.</p> <ol style="list-style-type: none"> Any integer divided by zero is _____. Radhika scored 20 marks. If she has got 12 correct answers, how many questions has she attempted incorrectly? <ol style="list-style-type: none"> 5 4 8 7 Mohini scores -5 marks in this test, though she has got 7 correct answers. How many questions has she attempted incorrectly? <ol style="list-style-type: none"> 11 12 0 13 	[5]

	<p>4. Reshma scores 30 marks in this test, though she has got 9 incorrect answers. How many questions has she attempted correctly?</p> <p>a) 18 b) 9 c) 16 d) 20</p> <p>5. zero divided by an integer other than zero is equal to zero. (a) True (b) False.</p>	
40	<p>Read the text carefully and answer the questions: In a quiz, team A scored - 40, 10, 0 and team B scored 10, 0, - 40 in three successive rounds.</p> <div style="text-align: center;">  </div> <p>1. For any two integers a and b, $a + b$ is an _____.</p> <p>2. Which team scored more?</p> <p>a) Not possible b) Both teams scored same c) Team B d) Team A</p> <p>3. Changing the order of addends does not change the sum is called</p> <p>a) Commutative property b) None of the above c) Closure property d) Associative property</p> <p>4. $(-40) + (+10) = (\text{_____}) + (\text{_____})$</p> <p>a) $-10 + 40$ b) $10 + 40$ c) $10 + (-40)$ d) $(-10) + (-40)$</p> <p>5. Addition is not commutative for integers. (a) True (b) False.</p>	[5]