

OBJECTIVE TYPE QUESTIONS PAGE: 5.18 Mark the correct alternative in each of the following: 1. Which of the following statement is true? (a) - 7 > -5(b) -7 < -5(c) (-7) + (-5) > 0(d) (-7) - (-5) > 0Solution: The option (b) is correct answer. In option (a) We know that -7 is to the left of -5Hence, -7 < -5. In option (c) We know that (-7) + (-5) = -(7+5) = -12. So -12 is to the left of 0 Hence (-7) + (-5) < 0. In option (d) (-7) - (-5) = (-7) + (additive inverse of - 5) = (-7) + (5) = -(7 - 5) = -2We know that -2 is to the left of 0, so (-7) - (-5) < 0. 2. 5 less than -2 is (a) 3 (d) 7 (b) -3(c) - 7Solution: The option (c) is correct answer. We know that, 5 less than -2 = (-2) - (5) = -2 - 5 = -**3.** 6 more than – 7 is (a) 1 (b) - 1(c) 13 (d) - 13Solution: The option (b) is correct answer. We know that, 6 more than -7 = (-7) + 6 = -(7 - 6) = -14. If x is a positive integer, then (c) x + |x| = -2x(d) x = -|x|(a) x + |x| = 0(b) x - |x| = 0Solution: The option (b) is correct answer. We know that if x is positive integer, then |x| = xHence, x + |x| = x + x = 2x and x - |x| = x - x = 05. If x is a negative integer, then (c) x + |x| = 2x(d) x - |x| = -2x(a) x + |x| = 0(b) x - |x| = 0Solution: The option (a) is correct answer. We know that x is negative integer, then |x| = -xIt can be written as x + |x| = x - x = 0 and x - |x| = x - (-x) = x + x = 2x

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6. If x is greater than 2, then |2 - x| =(a) 2 - x(b) x - 2(c) 2 + x(d) - x - 2Solution: The option (b) is correct answer. We know that if a is negative integer, then |a| = -aIt is given that x is greater than 2 where 2 - x is negative Hence, |2 - x| = -(2 - x) = -2 + x = x - 2. 7. 9 + |-4| is equal to (d) -13 (a) 5 (b) - 5(c) 13 Solution: The option (c) is correct answer. We know that, |-4| = 4Hence 9 + |-4| = 9 + 4 = 138. (-35) + (-32) is equal to (a) 67 (b) - 67 (c) - 3(d) 3Solution: The option (b) is correct answer. It can be written as (-35) + (-32) = -(35 + 32) = -679. (-29) + 5 is equal to (a) 24 (d) - 24(b) **34** (c) - 34Solution: The option (d) is correct answer. It can be written as (-29) + 5 = -(29 - 5) = -2410. |-|-7|-3| is equal to (a) - 7(c) 10 (d) - 10(b) 7 Solution: The option (c) is correct answer. It can be written as |-|-7|-3| = |-7-3| = |-10| = 1011. The successor of -22 is (a) - 23(b) - 21(d) 21 (c) 23 Solution: The option (b) is correct answer. We know that if 'a' is an integer a + 1 is its successor. So the successor of -22 = -22 + 1 = -(22 - 1) = -2112. The predecessor of - 14 is (a) - 15(b) 15 (c) 13 (d) - 13Solution:



The option (a) is correct answer. The predecessor of -14 is -15.

13. If the sum of two integers is -26 and one of them is 14, then the other integer is (a) - 12(b) 12 (c) - 40(d) 40 Solution: The option (c) is correct answer. It is given that the sum of two integers = -26One of them = 14So the other integer = -26 - 14 = -(26 + 14) = -4014. Which of the following pairs of integers have 5 as a difference? (a) 10, 5 (b) - 10, -5(c) 15, -20(d) both (a) and (b) Solution: The option (d) is correct answer. Consider option (a) 10 - 5 = 5Consider option (b) (-5) - (-10) = -5 + 10 = 5Consider option (c) 15 - (-20) = 15 + 20 = 3515. If the product of two integers is 72 and one of them is -9, then the other integers is (a) - 8(b) **8** (c) 81 (d) 63 Solution: The option (a) is correct answer. It is given that the product of two integers = 72One of them = -9Hence, the other integers = $72 \div (-9) = -8$ 16. On subtracting -7 from -14, we get (a) - 12(b) - 7(c) -14(d) 21 Solution: The option (b) is correct answer. It can be written as Required number = -14 - (-7) = -14 + 7 = -(14 - 7) = -717. The largest number that divides 64 and 72 and leave the remainders 12 and 7 respectively, is (a) 17 (b) 13 (c) 14 (d) 18 Solution: The option (b) is correct answer. By subtracting 12 and 7 from 64 and 72 We get 64 - 12 = 52 and 72 - 7 = 65So the required number is the HCF of 52 and 65. It can be written as $52 = 4 \times 13$ and $65 = 5 \times 13$ HCF 52 and 65 = 13



Hence, the largest number that divides 64 and 72 and leave the remainder 12 and 7 respectively, is 13.

18. The sum of two in (a) –14 Solution:	tegers is – 23. (b) 14	If one of then	n is 18, then the othe (c) 41	er is (d) -41
The option (d) is correct It is given as the sum of One of them = 18 So the other number = Hence, the other number	ct answer. f integers = -2 (-23) - (18) = er is -41 .	23 = - 23 - 18 = -	(23+18) = -41	
19. The sum of two in (a) 5 Solution:	tegers is – 35. (b) – 75	If one of then	n is 40, then the othe (c) 75	er is (d) – 5
The option (b) is correct It is given that the sum One of them = 40 So the other number = Hence, the other number	of integers = $-(-35) - (40) =$ er is -75 .	- 35 = - 35 - 40 = -	(35+40) = -75	
20. On subtracting – 5 (a) – 5 Solution:	5 from 0, we g (b) 5	get	(c) 50	(d) 0
The option (d) is correct We know that, $0 - (-5)$ Hence by subtracting -	et answer. 0 = 0 + 5 = 5 5 from 0, we	obtain 5.		
21. (- 16) + 14 - (- 13 (a) - 11 Solution:) is equal to (b) 12		(c) 11	(d) - 15
The option (c) is correct answer. It can be written as $(-16) + 14 - (-13) = (-16) + 14 + 13 = (-16) + 27 = 27 - 16 = 11$				
22. (- 2) × (- 3) × 6 × (a) 36 Solution:	(– 1) is equal (b) – 36	to	(c) 6	(d) – 6
The option (b) is correct answer. It can be written as $(-2) \times (-3) \times 6 \times (-1) = (2 \times 3) \times 6 \times (-1) = 6 \times 6 \times (-1) = 36 \times (-1)$ So we get $(-2) \times (-3) \times 6 \times (-1) = -(36 \times 1) = -36$				
23. 86 + (- 28) + 12 + ((a) 36 Solution:	(- 34) is equal (b) - 36	to	(c) 6	(d) – 6

The option (c) is correct answer.



RD Sharma Solutions for Class 6 Maths Chapter 5 -**Negative Numbers and Integers**

It can be written as 86 + (-28) + 12 + (-34) = 86 + (-28) - (34 - 12) = 86 + (-28) - 22On further calculation 86 + (-28) + 12 + (-34) = (86 - 28) - (34 - 12) = 58 - 22 = 36

24. $(-12) \times (-9) - 6 \times (-8)$ is equal to (a) 156 (b) **60** (c) -156 (d) - 60Solution:

The option (a) is correct answer. It can be written as $(-12) \times (-9) - 6 \times (-8) = (12 \times 9) - 6 \times (-8) = 108 - 6 \times (-8)$ On further calculation $86 + (-28) + 12 + (-34) = 108 + 6 \times 8 = 108 + 48 = 156$

