

Class: 6
Subject: Mathematics
Topic: Integers
No. of Questions: 20
Duration: 60 Min
Maximum Marks: 60

Q.1 Which of the following is a true statement?

- a) $-4 > 4$ b) $-4 < 4$ c) $-4 = 4$ d) -4 and 4 are incomparable.

Solution: b) $-4 < 4$

[Hint: Positive number is greater than a negative number.]

Q.2 2 less than -3 is

- a) -1 b) 1 c) -5 d) 5

Solution: c) -5

[Explanation: 2 less than $-3 = -3-2$ which is equal to -5 .]

Q.3 The successor of -16 is

- a) -15 b) -17 c) 17 d) 15

Solution: a) -15

[Explanation: $-16+1 = -15$]

Q.4 The predecessor of -18 is

- a) 19 b) 17 c) -17 d) -19

Solution: d) -19

[Explanation: $-18-1 = -19$]

Q.5 Write integers $5, -7, -2, 0, 8$ in increasing order.

- a) $0, -2, 5, -7, 8$ b) $-7, -2, 0, 5, 8$ c) $8, 5, 0, -2, -7$ d) $8, -7, 5, -2, 0$

Solution: b) $-7, -2, 0, 5, 8$

[Hint: Negative numbers are smaller in value than positive numbers.]

Q.6 Add (-236) and 573

- a) -337 b) 809 c) 337 d) -809

Solution: c) 337

[Explanation: Adding a positive and a negative number means we are subtraction them.

Therefore, $(-236) + 573 = +337$

Here, value of positive integer is greater than the value of a negative integer.

Hence, Positive sign is given to the result.]

Q.7 Find an integer 'a' such that $a+(-6) = 0$

- a) +6 b) -6 c) 0 d) None of these

Solution: a) +6

[Explanation: $a+(-6) = 0$

By adding +6 to both the sides

$a+(-6) + (+6) = 0 + (+6)$ (by associative law of addition)

$a+0 = +6$

$a = +6$]

Q.8 $|8-5| = |8| + |5|$?

- a) True b) False c) Both are incomparable d) None of these

Solution: b) False

[Explanation: LHS = $|8-5| = |3| = 3$

RHS = $|8| + |-5|$

$= 8+5=13$

LHS \neq RHS]

Q.9 $6 - (-4) = ?$

- a) 2 b) -10 c) 10 d) None of these

Solution: c) 10

[Hint: Change the signs first and then perform the required operation.]

Q.10 The sum of two integers is 20. If one of them is -5 then the other is

- a) 25 b) -25 c) 15 d) None of these.

Solution: a) 25

[Hint: Sum - First number = Second number]

Q.11 $(-6) + 4 - (-3) = ?$

- a) -5 b) -1 c) 1 d) None of these

Solution: c) 1

[Explanation: $(-6) + 4 - (-3) = (-6) + 4 + 3$
 $= -6 + 7$
 $= 1$]

Q.12 If $(-13+6) \square 25-(-9)$, then the correct symbol in the place of \square is \square

- a) < b) > c) = d) None of these

Solution: b) >

[Explanation: LHS = $(-13+6) = -7$
RHS = $-25-(-9)$
 $= -25+9 = -16$
Clearly, $-7 > -16$
Therefore, $(-13+6) > -25-(-9)$]

Q.13 0 is _____

- a) Positive integer b) Negative integer c) Neither positive nor negative integer
d) Not an integer

Solution: c) Neither positive nor negative integer.

[Hint: Fact]

Q.14 $(-9) \times 6 + (-9) \times 4 = ?$

- a) -90 b) 90 c) -18 d) 18

Solution: a) -90

[Explanation: $(-9) \times 6 = -54$
 $(-9) \times 4 = -36$
Therefore, $(-54) + (-36) = -54 - 36 = -90$]

Q.15 _____ $\div 372 = 0$

- a) 1 b) 372 c) -372 d) 0

Solution: d) 0

[Hint: Anything divided by zero gives zero as a result.]

Q.16 Divide (-272) by (-16)

- a) -17 b) 17 c) Cannot be divided d) None of these

Solution: b) 17

[Explanation: $(-272) / (-16) = 272/16 = 17$
Here negatives are cancelled.]

Q.17 What should be added to 16 to get (-31)?

- a) 15 b) -15 c) 47 d) -47

Solution: d) -47

[Explanation: $16 + ? = -31$
Subtracting 16 from -31 to get the result as subtraction is opposite of addition,
 $? = -31 - 16 = -47$]

Q.18 $-(-36) - 1 = -37$?

- a) True b) False c) Cannot be compared d) None of these

Solution: b) False

[Explanation: $-(-36) = 36$
 $-(-36) - 1 = 36 - 1$
 $= 35$
 $35 \neq -37$]

Q.19 Find the largest negative integer from the following.

- a) -8 b) -7 c) -1 d) 0

Solution: c) -1

[Explanation: -1 is the largest negative integer.]

Q.20 The opposite of $(-3) \times 2 \times (-1)$ is _____

- a) 6 b) -6 c) 9 d) -9

Solution: b) -6

[Explanation: $(-3) \times 2 \times (-1) = 6$
Opposite of 6 is (-6).]