

Integers

Question 1.

$$-67 \times (-1) = ?$$

- (a) -1
- (b) -67
- (c) 67
- (d) 1

Answer: (c) 67

Question 2.

Find $4 \times (-8)$

- (a) - 32
- (b) 32
- (c) None of these

Answer: (a) - 32

Product of 2 numbers of opposite signs is negative.

Question 3.

With respect to which of the following operations is closure property satisfied by the set of integers?

- (a) $+, \times$
- (b) $+, \div, \times$
- (c) $+, \times, -$
- (d) $+, -, \div$

Answer: (c) $+, \times, -$

Question 4.

On a number line, when we subtract a positive integer, we

- (a) move to the right

- (b) move to the left
- (c) do not move at all
- (d) none of these

Answer: (b) move to the left

Question 5.

$$10 \times (-3) = ?$$

- (a) 7
- (b) 30
- (c) -30
- (d) None of these

Answer: (c) -30

Question 6.

What is the absolute value of $|-239|$?

- (a) 0
- (b) 239
- (c) -239
- (d) 1

Answer: (b) 239

Question 7.

Additive inverse of 10 is :

- (a) 0
- (b) 10
- (c) -10
- (d) None of these

Answer: (c) -10

If a is an integer then $(-a)$ is its additive inverse.

Question 8.

What will be the sign of the product if we multiply together 8 negative integers ?

- (a) Negative
- (b) Positive
- (c) None of these

Answer: (b) Positive

Since 8 is even so the product of 8 negative integers is positive.

Question 9.

$$2 \times 4 = ?$$

- (a) 8
- (b) -8
- (c) 3
- (d) 6

Answer: (a) 8

Question 10.

Find 0×7

- (a) 7
- (b) 0
- (c) None of these

Answer: (b) 0

Zero multiplied by any integer is zero.

Question 11.

$$6 \times (-15 + 10) = \underline{\hspace{2cm}}$$

- (a) 30
- (b) -21
- (c) -30
- (d) 21

Answer: (c) -30

Question 12.

If a, b, c are 3 integers then, $a + (b + c) =$

- (a) $a + b + c$
- (b) $(a + b) + c$
- (c) $(a + c) + b$
- (d) None of these

Answer: (b) $(a + b) + c$

The addition of integer is associative.

Question 13.

Where are the negative numbers located on a horizontal number line?

- (a) On the right of 0
- (b) On the left of 0
- (c) Above 0
- (d) Below 0

Answer: (b) On the left of 0

Question 14.

What is the value of $124 \times 4 - 3 + 118 \div 2$?

- (a) 552
- (b) 496
- (c) 553
- (d) -553

Answer: (a) 552

Question 15.

Evaluate of $-50 \div 5$

- (a) -10
- (b) 10
- (c) None of these

Answer: (a) -10

Division of 2 numbers of opposite signs is negative.

Question 16.

$-45 \div 9 = ?$

- (a) 9
- (b) 5
- (c) -5
- (d) None of these

Answer: (c) -5

Question 17.

$0 \div 9 =$

- (a) 9

- (b) 0
- (c) None of these

Answer: (b) 0

Zero divided by any non-zero integer, the result is zero.

Question 18.

How is the withdrawal of RS. 200 represented?

- (a) Depositing Rs. 200
- (b) –Rs. 200
- (c) Rs. 200
- (d) –200

Answer: (b) –Rs. 200

Question 19.

Find predecessor of – 3

- (a) – 2
- (b) – 1
- (c) None of these
- (d) – 4

Answer: (d) – 4

Predecessor of an integer is just before it on the number line.

Question 20.

What is the nature of the product of a negative number by itself even number of times?

- (a) Negative
- (b) 0
- (c) Positive
- (d) Non-negative

Answer: (c) Positive

Question 21.

What will be the sign of the product if we multiply together 5 negative integers :

- (a) positive
- (b) Negative
- (c) None of these

Answer: (b) Negative

Since 5 is odd so the product of 5 negative integers is negative.

Question 22.

$$(-4) \times (-3) \times (-2) = \underline{\hspace{2cm}}$$

- (a) 24
- (b) -9
- (c) 9
- (d) -24

Answer: (d) -24

Question 23.

If $a \times (b - c)$ is 8 for $a = 2$, $b = 10$ and $c = 6$ then $a \times b - a \times c$ is equal to

- (a) (-8)
- (b) 12
- (c) 10
- (d) 8

Answer: (d) 8

Question 24.

$$a + 0 =$$

- (a) 0
- (b) a
- (c) -a
- (d) None of these

Answer: (a) 0

If a is any integer, then sum of a with 0 is the number itself.

Question 25.

Successor of 11 is :

- (a) 10
- (b) 13
- (c) None of these
- (d) 12

Answer: (d) 12

Successor of an integer is right to it on a number line.

Question 26.

Find successor of -16

- (a) -17
- (b) -15
- (c) None of these
- (d) -16

Answer: (b) -15

Successor of an integer is right to it on the number line.

Question 27.

If the dividend and divisor have unlike signs, what is the sign of the quotient?

- (a) Positive
- (b) Negative
- (c) Zero
- (d) Indeterminate

Answer: (b) Negative

Question 28.

Where do we place the positive numbers on a vertical number line with respect to 0?

- (a) Above
- (b) On its left side
- (c) On its right side
- (d) Below

Answer: (a) Above

Question 29.

5 and 3 are two integers then :

- (a) 5 is smaller than 3
- (b) both are equal
- (c) 5 is greater than 3
- (d) None of these

Answer: (c) 5 is greater than 3

Greater number is on the right of smaller on a number line.

Question 30.

Which amongst the following is the largest?

$|-89|$, -89 , -21 , $|-21|$

- (a) -89
- (b) -21
- (c) $|-89|$
- (d) $|-21|$

Answer: (c) $|-89|$

Question 31.

Which of the following is the smallest positive integer?

- (a) 0
- (b) 100
- (c) 1
- (d) 9

Answer: (c) 1

Question 32.

Complete the following using proper sign $8 \square 4$.

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

Answer: (a) $>$

As 8 is on right hand on number line.

Question 33.

On a number line, when we add a negative integer, we

- (a) move to the right
- (b) move to the left
- (c) do not move at all
- (d) none of these

Answer: (b) move to the left

Question 34.

Find $(-3) \times (-2)$

- (a) -6
- (b) 6
- (c) None of these

Answer: (b) 6

Product of 2 numbers of same sign is positive.

Question 35.

What is the opposite of earning Rs. 100?

- (a) + Rs. 100
- (b) Profit of Rs. 100
- (c) Gain of Rs. 100
- (d) Spending Rs. 100

Answer: (d) Spending Rs. 100

Question 36.

The product of $(-)$ $\times$ $(-)$ $\times$ $(-)$ is :

- (a) $+$
- (b) $-$
- (c) None of these

Answer: (b) $-$

The product of 3 negative integers is a negative integer.

Question 37.

What do we call the set of negative numbers and whole numbers?

- (a) Natural numbers
- (b) Integers
- (c) Positive numbers
- (d) The set of whole numbers

Answer: (b) Integers

Question 38.

$-5 \times (6) = ?$

- (a) 6
- (b) 5
- (c) -30
- (d) 30

Answer: (c) -30

Question 39.

Predecessor of 50 is :

- (a) 51
- (c) 49
- (b) – 15
- (d) None of these

Answer: (c) 49

Predecessor of an integer is just before it on the number line.

Question 40.

On a number line, when we add a positive integer, we

- (a) move to the right
- (b) move to the left
- (c) do not move at all
- (d) none of these

Answer: (a) move to the right

State whether true or false

Question 1.

The product of 3 negative integers is a negative integer.

Answer: true

Question 2.

$a \div b = b \div a$

Answer: false

Question 3.

Zero multiplied by any integer is zero.

Answer: true

Question 4.

$$a + b = b + a$$

Answer: true

Question 5.

When zero is divided by any non-zero integer the result is zero

Answer: true

Question 6.

The product of 6 negative integers is a negative integers.

Answer: false

Question 7.

$$9 \div 0 = 0.$$

Answer: true

Question 8.

$$a - b = b - a$$

Answer: false

Question 9.

The product of 4 negative integers is a negative integer.

Answer: false

Question 10.

Additive inverse of a is a.

Answer: false

Question 11.

$$a \times b = b \times a$$

Answer: true

Question 12.

The product of 2 negative integers is a positive integer.

Answer: true

Fill in the blanks:

1. $(-206) \div \dots\dots\dots = 1$

Answer: -206

2. If 'a' is an integer, then $(-a)$ is its $\dots\dots\dots$ inverse.

Answer: additive

3. $-75 \div \dots\dots\dots = -1$

Answer: 1

4. The sum of integers remains the $\dots\dots\dots$ even if, we change their orders.

Answer: same

5. $11 \div (-1) = \dots\dots\dots$

Answer: -11

6. $\dots\dots\dots$ is an integer which is neither negative nor positive.

Answer: Zero

7. Predecessor of Negative integer is $\dots\dots\dots$ just to it on the number line.

Answer: left

8. Sum of two integers is always an ?

Answer: integer

9. Every integers has its and its

Answer: predecessor, successor

10. $(-87) \div \dots\dots\dots = 87$

Answer: -1

11. Smallest positive integer is and greatest negative integer is

Answer: $1, -1$

12. $(-25) \div (-1) \dots\dots\dots$

Answer: 25

13. added to or subtracted from any integer is the integer itself.

Answer: zero

14. $369 \div \dots\dots\dots = 369$

Answer: 1

15. Every positive integer is greater than its integer.

Answer: negative

16. $(-8) \div (-1) = \dots\dots\dots$

Answer: 8

17. $-13 \div (1) = \dots\dots\dots$

Answer: -13

18. It is impossible to find greatest $\dots\dots\dots$ and smallest $\dots\dots\dots$ integer.

Answer: positive,negative

19. Successor of Positive integer is $\dots\dots\dots$ to it on a number line

Answer: right

Replace the blank with an integer to make it a true statement.

20. $(-3) \times \dots\dots\dots = 27$

Answer: -9

21. $5 \times \dots\dots\dots = -35$

Answer: -7

22. $\dots\dots\dots \times (-8) = -56$

Answer: 7

23. $\dots\dots\dots \times (-12) = 132$

Answer: -11

Use $>$, $<$ or sign $=$

24. $(-8) + (-4) \dots\dots\dots (-8) - (-4)$

Answer: $<$

25. $(-3) + 7 - (-9)$ $15 - 8 + (-9)$

Answer: >

26. $23 - 41 + 11$ $23 - 41 - 11$

Answer: >

27. $39 + (-24) - (15)$ $36 + (-52) - (-36)$

Answer: <

match the following:

1.

1. $4 \times (-8)$	(a) -18
2. $6 \times (-5)$	(b) -21
3. $3 \times (-7)$	(c) -30
4. $2 \times (-9)$	(d) -32

Answer:

1. $4 \times (-8)$	(a) -32
2. $6 \times (-5)$	(b) -30
3. $3 \times (-7)$	(c) -21
4. $2 \times (-9)$	(d) -18

2.

1. $a \times 1$	(a) not defined
2. $a \times 0$	(b) a
3. $a \div 1$	(c) 0
4. $a \div 0$	(d) a

Answer:

1. $a \times 1$	(d) a
2. $a \times 0$	(c) 0
3. $a \div 1$	(b) a
4. $a \div 0$	(a) not defined

3.

1. $(-316) \times (-1)$	(a) -360
2. $(-15) \times 0 \times (-18)$	(b) 162
3. $9 \times (-3) \times (-6)$	(c) 316
4. $(-18) \times (-5) \times (-4)$	(d) 0

Answer:

1. $(-316) \times (-1)$	(c) 316
2. $(-15) \times 0 \times (-18)$	(d) 0
3. $9 \times (-3) \times (-6)$	(b) 162
4. $(-18) \times (-5) \times (-4)$	(a) -360

4.

1. $(-100) \div 5$	(a) -15
2. $(-81) \div 9$	(b) -20
3. $(-75) \div 5$	(c) -16
4. $(-32) \div 2$	(d) -9

Answer:

1. $(-100) \div 5$	(b) -20
2. $(-81) \div 9$	(d) -9
3. $(-75) \div 5$	(a) -15
4. $(-32) \div 2$	(c) -16