

CHAPTER 1**INTEGERS****QUESTION BANK**

Question 1.

$(-11) \times 7$ is not equal to

- (a) $11 \times (-7)$
- (b) $- (11 \times 7)$
- (c) $(- 11) \times (- 7)$
- (d) $7 \times (-11)$

Question 2.

$(- 10) \times (- 5) + (- 7)$ is equal to

- (a) -57
- (b) 57
- (c) -43
- (d) 43

Question 3.

Which of the following is the multiplicative identity for an integer 0?

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

Question 4.

$[(- 8) \times (- 3)] \times (- 4)$ is not equal to

- (a) $(- 8) \times [(- 3) \times (- 4)]$
- (b) $[(- 8) \times (- 4)] \times (- 3)$
- (c) $[(- 3) \times (- 8)] \times (- 4)$
- (d) $(- 8) \times (- 3) - (- 8) \times (- 4)$

Question 5.

$(-25) \times [6 + 4]$ is not same as

- (a) $(-25) \times 10$
- (b) $(-25) \times 6 + (-25) \times 4$
- (c) $-25 \times 6 \times 4$
- (d) -250

Question 6.

-35×107 is not same as

- (a) $-35 \times (100 + 7)$
- (b) $(-35) \times 7 + (-35) \times 100$
- (c) $-35 \times 7 + 100$
- (d) $(-30 - 5) \times 107$

Question 7.

$(-43) \times (-99) + 43$ is equal to

- (a) 4300
- (b) -4300
- (c) 425
- (d) -4214

Question 8.

$(-16) \div 4$ is not same as

- (a) $(-4) \div 16$
- (b) $-(16 \div 4)$
- (c) $16 \div (-4)$
- (d) -4

Question 9.

Which of the following does not represent an integer?

- (a) $0 \div (-7)$
- (b) $20 \div (-4)$
- (c) $(-9) \div 3$
- (d) $(-12) \div 5$

Question 10.

Which of the following is different from the others?

- (a) $20 + (-25)$
- (b) $(-37) - (-32)$
- (c) $(-5) \times (-1)$
- (d) $45 \div (-9)$

Question 11.

If a and b are two integers, then which of the following may not be an integer?

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

Question 12.

For a non-zero integer a, which of the following is not defined?

- (a) $a \div 0$
- (b) $0 \div a$
- (c) $a \div 1$
- (d) $1 \div a$

Directions: Encircle the odd one of the following: (Questions 13 to 17)

Question 13.

- (a) $(-9) \times 5 \times 6 \times (-3)$
- (b) $9 \times (-5) \times 6 \times (-3)$
- (c) $(-9) \times (-5) \times (-6) \times 3$
- (d) $9 \times (-5) \times (-6) \times 3$

Question 14.

- (a) $(-100) \div 5$
- (b) $(-81) \div 9$
- (c) $(-75) \div 5$
- (d) $(-32) \div 9$

Question 15.

- (a) $(-1) \times (-1)$
- (b) $(-1) \times (-1) \times (-1)$

(c) $(-1) \times (-1) \times (-1) \times (-1)$

(d) $(-1) \times (-1) \times (-1) \times (-1) \times (-1) \times (-1)$

Question 16.

(a) $(-3, 3)$

(b) $(-5, 5)$

(c) $(-6, 1)$

(d) $(-8, 8)$

Question 17.

(a) $(-1, -2)$

(b) $(-5, 2)$

(c) $(-4, 1)$

(d) $(-9, 7)$

Directions: In questions 18 to 54, fill in the blanks to make the statements true.

Question 18.

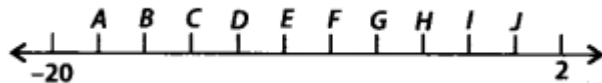
_____ $\div (-10) = 0$

Question 19.

$(-157) \times (-19) + 157 =$ _____ .

Question 20.

On the following number line, $(-4) \times 3$ is represented by the point _____ .



Question 21.

$(-8) + (-8) + (-8) =$ _____ $\times (-8)$

Question 22.

$11 \times (-5) = -(\text{_____} \times \text{_____}) =$ _____

Question 23.

$$(-9) \times 20 = \underline{\hspace{2cm}}$$

Question 24.

$$(-23) \times (42) = (-42) \times \underline{\hspace{2cm}}$$

Question 25.

While multiplying a positive integer and a negative integer, we multiply them as ___ numbers and put a ___ sign before the product.

Question 26.

If we multiply ___ number of negative integers, then the resulting integer is positive.

Question 27.

If we multiply six negative integers and six positive integers, then the resulting integer is ___ .

Question 28.

If we multiply five positive integers and one negative integer, then the resulting integer is ___ .

Question 29.

_____ is the multiplicative identity for integers.

Question 30.

We get additive inverse of an integer a, when we multiply it by ___ .

Question 31.

$$(-25) \times (-2) = \underline{\hspace{2cm}}.$$

Question 32.

$$(-5) \times (-6) \times (-7) = \underline{\hspace{2cm}}.$$

Question 33.

$$3 \times (-1) \times (-15) = \underline{\hspace{2cm}}.$$

Question 34.

$$[12 \times (-7)] \times 5 = \underline{\quad} \times [(-7) \times \underline{\quad}]$$

Question 35.

$$23 \times (-99) = \underline{\quad} \times (-100 + \underline{\quad}) = 23 \times \underline{\quad} + 23 \times \underline{\quad}$$

Question 36.

$$\underline{\quad} \times (-1) = -35$$

Question 37.

$$\underline{\quad} \times (-1) = 47$$

Question 38.

$$88 \times \underline{\quad} = -88$$

Question 39.

$$\underline{\quad} \times (-93) = 93$$

Question 40.

$$(-40) \times \underline{\quad} = 80$$

Question 41.

$$\underline{\quad} \times (-23) = -920$$

Question 42.

When we divide a negative integer by a positive integer, we divide them as whole numbers and put a sign before quotient.

Question 43.

When (-16) is divided by the quotient is 4.

Question 44.

Division is the inverse operation of .

Question 45.

$$65 \div (-13) = \underline{\hspace{2cm}}.$$

Question 46.

$$(-100) \div (-10) = \underline{\hspace{2cm}}.$$

Question 47.

$$(-225) \div 5 = \underline{\hspace{2cm}}.$$

Question 48.

$$\underline{\hspace{2cm}} \div (-1) = (-83)$$

Question 49.

$$\underline{\hspace{2cm}} \div (-1) = 75$$

Question 50.

$$51 \div \underline{\hspace{2cm}} = (-51)$$

Question 51.

$$113 \div \underline{\hspace{2cm}} = (-1)$$

Question 52.

$$-95 \div (-1) = 95$$

Question 53.

$$(-69) \div 69 = \underline{\hspace{2cm}}.$$

Question 54.

$$(-28) \div (-28) = \underline{\hspace{2cm}}$$

Question 55.

Evaluate:

(i) $427 \times 8 + 2 \times 427$

(ii) $394 \times 12 + 394 \times (-2)$

(iii) $558 \times 27 + 3 \times 558$

Question 56.

Evaluate:

(i) $673 \times 9 + 673$

(ii) $1925 \times 101 - 1925$

Question 57.

Verify:

(i) $37 \times \{8 + (-3)\} = 37 \times 8 + 37 \times (-3)$

(ii) $(-82) \times \{(-4) + 19\} = (-82) \times (-4) + (-82) \times 19$

(iii) $\{7 - (-7)\} \times 7 = 7 \times 7 - (-7) \times 7$

(iv) $\{(-15) - 8\} \times -6 = (-15) \times (-6) - 8 \times (-6)$

$= (-82) \times (-4 + 19)$

Question 58.

Evaluate:

(i) 15×8

(ii) $15 \times (-8)$

(iii) $(-15) \times 8$

(iv) $(-15) \times -8$

Question 59.

Evaluate:

(i) $4 \times 6 \times 8$

(ii) $4 \times 6 \times (-8)$

(iii) $4 \times (-6) \times 8$

(iv) $(-4) \times 6 \times 8$

(v) $4 \times (-6) \times (-8)$

(vi) $(-4) \times (-6) \times 8$

(vii) $(-4) \times 6 \times (-8)$

(viii) $(-4) \times (-6) \times (-8)$

Question 60.

Evaluate:

(i) $2 \times 4 \times 6 \times 8$

(ii) $2 \times (-4) \times 6 \times 8$

(iii) $(-2) \times 4 \times (-6) \times 8$

(iv) $(-2) \times (-4) \times 6 \times (-8)$

(v) $(-2) \times (-4) \times (-6) \times (-8)$

Question 61.

Determine the integer whose product with '-1' is:

(i) -47

(ii) 63

(iii) -1

(iv) 0

Question 62.

Eighteen integers are multiplied together. What will be the sign of their product, if:

(i) 15 of them are negative and 3 are positive?

(ii) 12 of them are negative and 6 are positive?

(iii) 9 of them are positive and the remaining are negative?

(iv) all are negative?

Question 63.

Find which is greater?

(i) $(8 + 10) \times 15$ or $8 + 10 \times 15$

(ii) $12 \times (6 - 8)$ or $12 \times 6 - 8$

(iii) $\{(-3) - 4\} \times (-5)$ or $(-3) - 4 \times (-5)$

Question 64.

State, true or false:

(i) product of two different integers can be zero.

(ii) product of 120 negative integers and 121 positive integers is negative.

(iii) $a \times (b + c) = a \times b + c$

(iv) $(b - c) \times a = b - c \times a$.

Question 65.

Divide:

(i) 117 by 9

(ii) (-117) by 9

(iii) 117 by (-9)

(iv) (-117) by (-9)

(v) 225 by (-15)

(vi) $(-552) \div 24$

(vii) (-798) by (-21)

(viii) $(-910) \div 26$

Question 66.

Evaluate:

(i) $(-234) \div 13$

(ii) $234 \div (-13)$

(iii) $(-234) \div (-13)$

(iv) $374 \div (-17)$

(v) $(-374) \div 17$

(vi) $(-374) \div (-17)$

(vii) $(-728) \div 14$

(viii) $272 \div (-17)$

Question 67.

Find the quotient in each of the following divisions:

(i) $299 \div 23$

(ii) $299 \div (-23)$

(iii) $(-384) \div 16$

(iv) $(-572) \div (-22)$

(v) $408 \div (-17)$

Question 68.

Divide:

(i) 204 by 17

(ii) 152 by -19

(iii) 0 by 35

(iv) 0 by (-82)

(v) 5490 by 10

(vi) 762800 by 100

Question 69.

State, true or false:

(i) $0 \div 32 = 0$

(ii) $0 \div (-9) = 0$

(iii) $(-37) \div 0 = 0$

(iv) $0 \div 0 = 0$

Question 70.

Evaluate:

(i) $42 \div 7 + 4$

(ii) $12 + 18 \div 3$

(iii) $19 - 20 \div 4$

(iv) $16 - 5 \times 3 + 4$

(v) $6 - 8 - (-6) \div 2$

(vi) $13 - 12 \div 4 \times 2$

(vii) $16 + 8 \div 4 - 2 \times 3$

(viii) $16 \div 8 + 4 - 2 \times 3$

(ix) $16 - 8 + 4 \div 2 \times 3$

(x) $(-4) + (-12) \div (-6)$

(xi) $(-18) + 6 \div 3 + 5$

(xii) $(-20) \times (-1) + 14 \div 7$

Question 71. Evaluate:

$$18 - (20 - 15 \div 3)$$

Question 72.

$$-15 + 24 \div (15 - 13)$$

Question 74.

$$46 - [26 - \{14 - (15 - 4 \div 2 \times 2)\}]$$

Question 75.

$$45 - [38 - \{60 \div 3 - (6 - 9 \div 3) \div 3\}]$$

Question 76.

$$88 - \{5 - (-48) \div (-16)\}$$

Question 77.

The sum of two integers is -15 . If one of them is 9 , find the other.

Question 78.

The difference between integers x and -6 is -5 . Find the values of x .

Question 79.

The sum of two integers is 28 . If one integer is -45 , find the other.

Question 80.

The sum of two integers is -56 . If one integer is -42 , find the other.

Question 81.

The difference between an integer x and (-9) is 6 . Find all possible values of x .

Question 82.

Evaluate:

(i) $(-1) \times (-1) \times (-1) \times \dots \times (-1)$ 60 times.

(ii) $(-1) \times (-1) \times (-1) \times (-1) \times \dots \times (-1)$ 75 times.

Question 83.

Evaluate:

(i) $(-2) \times (-3) \times (-4) \times (-5) \times (-6)$

(ii) $(-3) \times (-6) \times (-9) \times (-12)$

(iii) $(-11) \times (-15) \times (-11) \times (-25)$

(iv) $10 \times (-12) + 5 \times (-12)$

Question 84.

(i) If $x \times (-1) = -36$, is x positive or negative?

(ii) If $x \times (-1) = 36$, is x positive or negative?

Question 85.

Write all the integers between -15 and 15 , which are divisible by 2 and 3 .

Write all the integers between -5 and 5 , which are divisible by 2 or 3 .

Question 86. Evaluate:

(i) $(-20) + (-8) \div (-2) \times 3$

(ii) $(-5) - (-48) \div (-16) + (-2) \times 6$

(iii) $16 + 8 \div 4 - 2 \times 3$

(iv) $16 \div 8 \times 4 - 2 \times 3$

(v) $27 - [5 + \{28 - (29 - 7)\}]$

(vi) $-8 - \{-6(9 - 11) + 18 \div -3\}$

Question 87.

Add the product of (-13) and (-17) to the quotient of (-187) and 11 .

Question 88.

The product of two integers is -180 . If one of them is 12 , find the other.

Question 89.

(i) A number changes from -20 to 30 . What is the increase or decrease in the number?

(ii) A number changes from 40 to -30 . What is the increase or decrease in the number?

