

Integers class 7 worksheet

(i) Complete the following pattern:

- (a) 7, 3, -1, -5, _____, _____, _____.
(b) -2, -4, -6, -8, _____, _____, _____.
(c) 15, 10, 5, 0, _____, _____, _____.
(d) -11, -8, -5, -2, _____, _____, _____.

(ii) Use the sign of >, < or = in the box to make the statements true.

- (a) $(-8) + (-6)$ $(-8) - (-6)$
(b) $(-3) + 7 - 19$ $15 - 8 + (-9)$
(c) $23 - 41 + 10$ $23 - 41 - 10$
(d) $39 + (-24) - 15$ $36 + (-52) - (-36)$
(e) $-231 + 79 + 51$ $(-399) + 159 + 81$

(iii) Solve the following: (a) $(-15) \times 8 + (-15) \times 4$ (b) $[32 + 2 \times 17 + (-6)] \div 15$

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

(v) (a) For any integer a, what is $(-1) \times a$ equal to? (b) Determine the integer whose product with (-1) is 24

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

- (a) $(-3) \times \underline{\hspace{2cm}} = 24$ (b) $5 \times \underline{\hspace{2cm}} = -40$
(c) $\underline{\hspace{2cm}} \times (-9) = -63$ (d) $\underline{\hspace{2cm}} \times (-12) = 132$

(vii) For any integer a, $a \div 1 = \dots\dots\dots$

(viii) For any integer a, $a \div (-1) = \dots\dots\dots$

(ix) Evaluate the following : (a) $(-526) - (-217)$ (b) $(-31) + 31$ (c) $[(-6) \times (-8)] \times 5$ (d) $-13 \times (7-8)$
(e) $(-3) \times 8 \times (-5)$

(x) Match the following

Column I

Column II

- | | |
|----------------------|-------------------------------|
| (a) $a \times 1$ | (i) Additive inverse of a |
| (b) 1 | (ii) Additive identity |
| (c) $(-a) \div (-b)$ | (iii) Multiplicative identity |
| (d) $a \times (-1)$ | (iv) $a \div (-b)$ |
| (e) $a \times 0$ | (v) $a \div b$ |
| (f) $(-a) \div b$ | (vi) a |

(g) 0 (vii) $-a$

(h) $a \div (-a)$ (viii) 0

(i) $-a$ (ix) -1

Ans. (i) (a) -9, -13, -17, -21 (b) -10, -12, -14, -16 (c) -5, -10, -15, -20 (d) 1, 4, 7, 10

(ii) (a) $<$ (b) $<$ (c) $>$ (d) $<$ (e) $>$ (iii) (a) -180 (b) 4 (iv) $a \times c$

(v) (a) $-a$ (b) -24 (vi) (a) -8 (b) -8 (c) 7 (d) -11 (vii) a (viii) $-a$

(ix) (a) -309 (b) 0 (c) 240 (d) 13 (e) 120

(x) (a) \rightarrow (vi), (b) \rightarrow (iii), c \rightarrow (v), d \rightarrow (vii), e \rightarrow (viii), f \rightarrow (iv) g \rightarrow (ii), h \rightarrow (ix), i \rightarrow (i)

Integers class 7 (extra questions with answers)

A. State whether the following statements are correct or incorrect.

- (i) When two positive integers are added we get a positive integer.
- (ii) When two negative integers are added we get a positive integer.
- (iii) When a positive integer and a negative integer are added, we always get a negative integer.
- (iv) Additive inverse of an integer 8 is (-8) and additive inverse of (-8) is 8.
- (v) For subtraction, we add the additive inverse of the integer that is being subtracted, to the other integer.
- (vi) $(-10) + 3 = 10 - 3$
- (vii) $8 + (-7) - (-4) = 8 + 7 - 4$
- (viii) $25 \times (-21) = (-25) \times 21$
- (ix) -1 is a multiplicative identity of integers?
- (x) The distributivity of multiplication over addition is true for integers.
- (xi) Is division associative for integers?
- (xii) When we change the order of integers, their sum remains the same.
- (xiii) When we change the order of integers their difference remains the same.

(xiv) $a \div b = b \div a$

(xv) $a - b = b - a$

B . Answer the following questions:

(i) Write a pair of integers whose sum is zero (0) but difference is 8.

(ii) Write a pair of integers whose product is -15 and whose difference is 8.

(iii) On multiplying or dividing two integers, If the signs of both the integers are same, the sign of the answer is

(iv) On multiplying or dividing two integers, If the signs of both the integers are different, the sign of the answer is

(v) If a, b and c are integers then $a \times (b+c) = \dots + \dots$

(vi) The product of three negative integers is a integer.

(vii) The product of four negative integers is a integer.

(viii) If the number of negative integers in a product is even, then the product is a integer; if the number of negative

integers in a product is odd, then the product is a integer.

(ix) What will be the sign of the product if we multiply together: (a) 8 negative integers and 3 positive integers?

(b) 5 negative integers and 4 positive integers?

(x) $(-5) \times (-10) = \dots \times (-5)$

(xi) The sum of two integers is 116. If one of them is -79, find the other integers.

(xii) The product of three integers does not depend upon the grouping of integers and this is called the for multiplication of integers

Ans. A. (i) True (ii) False (iii) False (iv) True (v) True (vi) False (viii) False (viii) True (ix) False (x) True (xi) False

(xii) True (xiii) False (xiv) False (v) False

B. (i) 4 and -4 (ii) 5, -3 and 3, -5. (iii) positive (iv) negative (v) $(a \times b) + (b \times c)$ (vi) negative (vii) positive (viii) positive, negative (ix) (a) positive (b) negative (x) -10 (xi) 195 (xii) associative property

MCQ questions for class 7 maths integers

(i) Put the correct sign $<$, $>$ or $=$. $(-11)+(-7) \square (-11)-(-7)$

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

(ii) Solve $40-(-39)+(-5)$

- (a) 74 (b) 64 (c) 60 (d) 0

(iii) When the integers 12, 0, 5, -5, -8 are arranged in descending or ascending order, then find out which of the following integers always remains in the middle of the arrangement.

- (a) 0 (b) 5 (c) -8 (d) -5

(iv) Next three consecutive numbers in the pattern 11, 8, 5, 2, --, --, --are

- (a) 0, -3, -6 (b) -1, -5, -8 (c) -2, -5, -8 (d) -1, -4, -7

(v) The is an additive identity for integers.

- (a) 1 (b) 0 (c) -1 (d) 2

(vi) $(-1) \times (-1) \times (-1) \times (-1) \times (-1) = \dots\dots\dots$

- (a) 1 (b) -1 (c) 0 (d) 2

(vii) is the multiplicative identity for integers.

- (a) 0 (b) 1 (c) -1 (d) 2

(viii) $0 \div a = \dots\dots\dots$ for $a \neq 0$

- (a) 0 (b) 1 (c) -1 (d) not defined

(ix) any integer divided by zero is

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

(x) $(-85) \times 43 + 43 \times (-15)$ is equal to ?

- (a) -4300 (b) 4300 (c) 430 (d) -430

Ans. (i) (a) (ii) (a) (iii) 0 (iv) (d) (v) (b) (vi) (b) (vii) (b) (viii) (a) (ix) (b)
(x) (a)