

7th – Integers II



Solve the following questions:

- Find the product, using suitable properties:
 $7 \times (50-2)$
- Verify that $a \div (b+c) \neq (a \div c) + (a \div c)$ for each of the following values of a, b and c. $a = (-10)$, $b = 1$, $c = 1$
- Add: (a) $+313$ and $+125$ (b) -35 and -29
- Represent the following integers on the number line:
 3 , -3 , 5 and -1
- Simplify:
(a) $-125 - (183)$ (b) $146 - (-200) - (-90)$ (c) $(-15) - 16$
 $-(25 - 10)$
- Evaluate:
 $(-6 + 3) \times 9$
- (a) Multiply (-32) by (-1) . Is the product additive inverse of (-32) ?
(b) Multiply (-503) by 1 . Is the product additive inverse of (-503) ?
- Fill in the blank with correct integers:
(a) $(-1) \underline{\hspace{1cm}} = -51$
(b) $\underline{\hspace{1cm}} \times 39 = -39$
- $0 \div (-8)$ is
(a) 0 (b) -1 (c) -8 (d) Not possible
- $(-83) \div (-83)$ is
(a) 1 (b) -1 (c) 0 (d) 166
- Simplify: $(-5) \times (-9) + (-71) \times (-5)$.
- Which of the following statements are true and which are false:
(A) $-32 \times 1 = 32$ (b) $(-17 + 11) \times 8 = -17 + (11 \times 8)$
(c) $[5 \times (-6)] \times 7 = 5 \times [(-6) \times 7]$
- Find y in the following:
(a) $(-27) \times [4 + (-3)] = (-27) \times y + (-27) \times (-3)$
(b) $8 \times [(-5) + y] = 8 \times (-5) + 8 \times 10$
- Simplify the following:
(a) $(-3) \times (-12) + (-6) - 5$
(b) $9 - [4 + \{3 - (5 - 8 - 6) - (-3 + 2)\}]$
(c) $-8 - [7 - \{2 + 5 - (6 - 7 - 3)\}]$
- A plane is flying at the height of 5000m above the sea level. At a particular point, it is exactly above a submarine floating 1200m below the sea level. What is the vertical distance between them?
- Rita goes 20km towards east from a point A to the point B. From B, she moves 30km towards west along the same road. If the distance towards east is represented by a positive integer then, how will you represent travelled towards west? By which integer will you represent the distance towards west? By which integer will you represent her final position from A?
- Verify $a - (-b) = a + b$ for the following values of a and b.
I. $A = 118$, $b = 125$
II. $A = 28$, $b = 11$
- Fill in the blanks to make following statements true:
I. $[13 + (-12)] + (\underline{\hspace{1cm}}) = 13 + [(-12) + (-7)]$
II. $(-4) + [15 + (-3)] = [-4 + 15] + \underline{\hspace{1cm}}$



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19. Find each of the following products:

I. $(-12) \times (-11) \times (10)$

II. $(-3) \times (-6) \times (-2) \times (-1)$

20. Evaluate each of the following:

a) $13 \div [(-2) + 1]$

b) $[(-6) + 5] \div [(-2) + 1]$

21. Verify: $(-21) \times [(-4) + (-6)] = [(-21) \times (-4)] + [(-21) \times (-6)]$.

