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(Affiliated to CBSE up to +2 Level)

CLASS: VII

SUB.: MATHS (NCERT BASED)

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Integers

Find each of the following products:

(a) $3 \times (-1)$

(b) $(-1) \times 225$

(c) $(-21) \times (-30)$

(d) $(-316) \times (-1)$

(e) $(-15) \times 0 \times (-18)$

(f) $(-12) \times (-11) \times (10)$

(g) $9 \times (-3) \times (-6)$

(h) $(-18) \times (-5) \times (-4)$

(i) $(-1) \times (-2) \times (-3) \times 4$

(j) $(-3) \times (-6) \times (-2) \times (-1)$

Solution:

(a) $3 \times (-1) = -3 \times 1 = -3$

(b) $(-1) \times 225 = -1 \times 225 = -225$

(c) $(-21) \times (-30) = (-) \times (-) \times 21 \times 30$

Verify the following:

(a) $18 \times [7 + (-3)] = [18 \times 7] + [18 \times (-3)]$

(b) $(-21) \times [(-4) + (-6)] = [(-21) \times (-4)] + [(-21) \times (-6)]$

Solution:

(a) $18 \times [7 + (-3)] = [18 \times 7] + [18 \times (-3)]$

LHS = $18 \times [7 + (-3)] = 18 \times 4 = 72$

RHS = $[18 \times 7] + [18 \times (-3)] = 126 + (-54)$

= $126 - 54 = 72$

LHS = RHS

Hence, verified.