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(Affiliated to CBSE up to +2 Level)

CLASS: VIII

SUB.: MATHS (NCERT BASED)

DATE: 17-09-2020

Q 4. Obtain the volume of rectangular boxes with the following length, breadth and height respectively.

(i) $5a, 3a^2, 7a^4$

(ii) $2p, 4q, 8r$

(iii) $xy, 2x^2y, 2xy^2$

(iv) $a, 2b, 3c$

Solution: (i) Here, length = $5a$, breadth = $3a^2$, height = $7a^4$

Volume of the box = $l \times b \times h = 5a \times 3a^2 \times 7a^4 = 105 a^7$ cu. units

Q 5. Obtain the product of

(i) xy, yz, zx

(ii) $a, -a^2, a^3$

(iii) $2, 4y, 8y^2, 16y^3$

(iv) $a, 2b, 3c, 6abc$

(v) $m, -mn, mnp$

Solution: (i) $xy \times yz \times zx = x^2y^2z^2$

Q 6. Carry out the multiplication of the expressions in each of the following pairs:

(i) $4p, q + r$

(ii) $ab, a - b$

(iii) $a + b, 7a^2b^2$

(iv) $a^2 - 9, 4a$

(v) $pq + qr + rp, 0$

Solution: (i) $4p \times (q + r) = (4p \times q) + (4p \times r) = 4pq + 4pr$

Q7. Complete the table.

S.No.	First Expression	Second Expression	Product
(i)	a	$b + c + d$	-
(ii)	$x + y - 5$	$5xy$	-
(iii)	p	$6p^2 - 7p + 5$	-
(iv)	$4p^2q^2$	$p^2 - q^2$	-
(v)	$a + b + c$	abc	-

Solution:

(i) $a \times (b + c + d) = (a \times b) + (a \times c) + (a \times d) = ab + ac + ad$

Do Your Self

Remaining Questions