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Class- 06. Sub-.Maths

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3. Pick out the solution from the values given in the bracket next to each equation.

Show that the other values do not satisfy the equation.

(a)  $5m = 60$  (10, 5, 12, 15)

(b)  $n + 12$  (12, 8, 20, 0)

(c)  $p - 5 = 5$  (0, 10, 5 - 5)

(d)  $q / 2 = 7$  (7, 2, 10, 14)

(e)  $r - 4 = 0$  (4, -4, 8, 0)

(f)  $x + 4 = 2$  (-2, 0, 2, 4)

**Solutions:**

(a)  $5m = 60$

$m = 12$  is a solution for this equation because for  $m = 12$ ,

$$5m = 5 \times 12$$

$$= 60$$

$\therefore$  Equation satisfied

$m = 10$  is not a solution for this equation because for  $m = 10$ ,

$$5m = 5 \times 10$$

$$= 50 \text{ and not } 60$$

$m = 5$  is not a solution for this equation because for  $m = 5$ ,

$$5m = 5 \times 5$$

$$= 25 \text{ and not } 60$$

$m = 15$  is not a solution for this equation because for  $m = 15$ ,

$$5m = 5 \times 15$$

$$= 75 \text{ and not } 60$$

$$(b) n + 12 = 20$$

$n = 8$  is a solution for this equation because for  $n = 8$ ,

$$n + 12 = 8 + 12$$

$$= 20$$

$\therefore$  Equation satisfied

$n = 12$  is not a solution for this equation because for  $n = 12$ ,

$$n + 12 = 12 + 12$$

$$= 24 \text{ and not } 20$$

$n = 20$  is not a solution for this equation because for  $n = 20$ ,

$$n + 12 = 20 + 12$$

$$= 32 \text{ and not } 20$$

$n = 0$  is not a solution for this equation because for  $n = 0$ ,

$$n + 12 = 0 + 12$$

$$= 12 \text{ and not } 20$$

$$(c) p - 5 = 5$$

$p = 10$  is a solution for this equation because for  $p = 10$ ,

$$p - 5 = 10 - 5$$

$$= 5$$

$\therefore$  Equation satisfied

$p = 0$  is not a solution for this equation because for  $p = 0$ ,

$$p - 5 = 0 - 5$$

$$= -5 \text{ and not } 5$$

$p = 5$  is not a solution for this equation because for  $p = 5$ ,

$$p - 5 = 5 - 5$$

$$= 0 \text{ and not } 5$$

$p = -5$  is not a solution for this equation because for  $p = -5$ ,

$$p - 5 = -5 - 5$$

= - 10 and not 5

(d)  $q / 2 = 7$

$q = 14$  is a solution for this equation because for  $q = 14$ ,

$$q / 2 = 14 / 2$$

$$= 7$$

∴ Equation satisfied

$q = 7$  is not a solution for this equation because for  $q = 7$ ,

$$q / 2 = 7 / 2 \text{ and not } 7$$

$q = 2$  is not a solution for this equation because for  $q = 2$ ,

$$q / 2 = 2 / 2$$

$$= 1 \text{ and not } 7$$

$q = 10$  is not a solution for this equation because for  $q = 10$ ,

$$q / 2 = 10 / 2$$

$$= 5 \text{ and not } 7$$

(e)  $r - 4 = 0$

$r = 4$  is a solution for this equation because for  $r = 4$ ,

$$r - 4 = 4 - 4$$

$$= 0$$

∴ Equation satisfied

$r = -4$  is not a solution for this equation because for  $r = -4$ ,

$$r - 4 = -4 - 4$$

$$= -8 \text{ and not } 0$$

$r = 8$  is not a solution for this equation because for  $r = 8$ ,

$$r - 4 = 8 - 4$$

$$= 4 \text{ and not } 0$$

$r = 0$  is not a solution for this equation because for  $r = 0$ ,

$$r - 4 = 0 - 4$$

= - 4 and not 0

$$(f) x + 4 = 2$$

$x = -2$  is a solution for this equation because for  $x = -2$ ,

$$x + 4 = - 2 + 4$$

$$= 2$$

$\therefore$  Equation satisfied

$x = 0$  is not solution for this equation because for  $x = 0$ ,

$$x + 4 = 0 + 4$$

$$= 4 \text{ and not } 2$$

$x = 2$  is not a solution for this equation because for  $x = 2$ ,

$$x + 4 = 2 + 4$$

$$= 6 \text{ and not } 2$$

$x = 4$  is not a solution for this equation because for  $x = 4$ ,

$$x + 4 = 4 + 4$$

$$= 8 \text{ and not } 2$$