

ASSIGNMENT: CH – 11

Class / Sec: VI

Subject: MATHEMATICS

Topic: Algebra

Instructions: Do the worksheet in your Practice Register.

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Q.1 Give expression in the following cases

- a)  $-p$  divided by 5
- b) 9 taken away from the sum of  $x$  and  $y$
- c) The quotient of  $x$  by 3 multiplied by  $y$ .
- d) 11 subtracted from twice of  $m$ .

Q.2 Cost of one pencil is ₹ $x$ . Cost of one pen is ₹ $y$  find the total cost of

- a) 3 pens and 5 pencils.
- b) 9 pencils

Q.3 Find the value of given expressions at the values given in the bracket.

- i)  $m - 7$  at ( $m = 7, 10$ )
- ii)  $\frac{z}{2} + 10$  at ( $z = 8, 16$ )

Q.4 Pick out the solution from the given values. Show that other values do not satisfy the equation.

- a)  $3x - 7 = 2$  (2, 1, -2, 3)
- b)  $2n + 12 = 20$  (4, 10, 5, 0)
- c)  $r - 4 = -2$  (0, 4, 2)

Q.5 Let Rahul's present age to be  $x$  years.

- i) What will be his age 5 years from now?
- ii) What was his age 2 years back?
- iii) His grandfather is 6 times his age. Find the age of grandfather.
- iv) His elder brother is three and half years elder than him. Find the age of his brother.

Q.6 Find the perimeter of regular hexagon of side  $m$  cm.

Q.7 Find the perimeter of triangle whose sides are  $x$  cm,  $y$  cm and  $z$  cm.

Q.8 The difference of a number and 6 is 14 .find the number.

Q.9 Write mathematical statement for following.

- i)  $4 + 3x$
- ii)  $11 - 2x$
- iii)  $(x + y) - 9$
- iv)  $xy + (x + y)$

Q.10 Find the value of x.

- a)  $36 - x = 16$
- b)  $x + 10 = 17$
- c)  $45 \times x = 135$
- d)  $x \div 6 = 45$

## Matchstick Puzzles - #4

1. Move two matchsticks so the glass is reformed without the coin inside.



4. Change three matches into six without breaking any of them.



2. Can you make the fish swim in the opposite direction by moving only three matchsticks?



5. Using just six matchsticks, make four equilateral triangles.



3. Move one matchstick to make a correct equation.



6. Move three matchsticks to make four equilateral triangles.

