Introduction to Algebra Ex 8.1 Q1

(vi) Let a be the side of the square.

$\therefore$ Perimeter of the square $= 4a$

Introduction to Algebra Ex 8.1 Q2

Answer:

(i) The sum of 6 and x is $6 + x$.

(ii) 3 more than a number y means $y + 3$.

(iii) One-third of a number x is $\frac{x}{3}$.

(iv) One-half of the sum of numbers x and y is $\frac{(x+y)}{2}$.

(v) Number y less than a number 7 means $7 - y$.

(vi) 7 taken away from x means $x - 7$.

(vii) 2 less than the quotient of x by y is $\frac{x}{y} - 2$.

(viii) 4 times x taken away from one-third of y is $\frac{y}{3} - 4x$.

(ix) Quotient of x by 3 is multiplied by y means:

$$\frac{x}{3} \times y = \frac{xy}{3}$$

Introduction to Algebra Ex 8.1 Q3

Answer:

Let the number be x.

On multiplying the number by 5, we get:
$5x$

Further, adding 6 to $5x$, we get:
$5x + 6$

Finally, on subtracting y from $5x + 6$, we get:
$5x + 6 - y$

*********** END **********

*********** END **********