



### Exercise 9A

$$\therefore x = 17$$

(iii)  $4x = 28$

We try several values of  $x$  until we get the L.H.S. equal to the R.H.S.

$x$	L.H.S.	R.H.S.	Is L.H.S. = R.H.S.?
1	$4 \times 1 = 4$	28	No
2	$4 \times 2 = 8$	28	No
3	$4 \times 3 = 12$	28	No
4	$4 \times 4 = 16$	28	No
5	$4 \times 5 = 20$	28	No
6	$4 \times 6 = 24$	28	No
7	$4 \times 7 = 28$	28	Yes

$$\therefore x = 7$$

(iv)  $3y = 36$

We try several values of  $y$  until we get the L.H.S. equal to the R.H.S.

$y$	L.H.S.	R.H.S.	Is L.H.S. = R.H.S.?
6	$3 \times 6 = 18$	36	No
7	$3 \times 7 = 21$	36	No
8	$3 \times 8 = 24$	36	No
9	$3 \times 9 = 27$	36	No
10	$3 \times 10 = 30$	36	No
11	$3 \times 11 = 33$	36	No
12	$3 \times 12 = 36$	36	Yes

$$\therefore y = 12$$

(v)  $11 + x = 19$

We try several values of  $x$  until we get the L.H.S. equal to the R.H.S.

$x$	L.H.S.	R.H.S.	Is L.H.S. = R.H.S.?
1	$11 + 1 = 12$	19	No
2	$11 + 2 = 13$	19	No
3	$11 + 3 = 14$	19	No
4	$11 + 4 = 15$	19	No
5	$11 + 5 = 16$	19	No
6	$11 + 6 = 17$	19	No
7	$11 + 7 = 18$	19	No
8	$11 + 8 = 19$	19	Yes

$$\therefore x = 8$$

(vi)  $\frac{x}{3} = 4$

Since R.H.S. is a natural number so L.H.S. must also be a natural number. Thus,  $x$  has to be a multiple of 3.

x	L.H.S.	R.H.S.	Is L.H.S. = R.H.S.?
3	$\frac{3}{3} = 1$	4	No
6	$\frac{6}{3} = 2$	4	No
9	$\frac{9}{3} = 3$	4	No
12	$\frac{12}{3} = 4$	4	Yes

$\therefore x = 12$

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(vii)  $2x - 3 = 9$

We try several values of x until we get the L.H.S. equal to the R.H.S.

x	L.H.S.	R.H.S.	Is L.H.S. = R.H.S.?
1	$2 \times 1 - 3 = -1$	9	No
2	$2 \times 2 - 3 = 1$	9	No
3	$2 \times 3 - 3 = 3$	9	No
4	$2 \times 4 - 3 = 5$	9	No
5	$2 \times 5 - 3 = 7$	9	No
6	$2 \times 6 - 3 = 9$	9	Yes

$\therefore x = 6$

\*\*\*\*\* END \*\*\*\*\*