Playing With Numbers Ex 5.3 Q1

Answer :

Two possible values of A are :
(i) If $7 + B \leq 9$
$\therefore 3 + A = 9$
$\Rightarrow A = 6$
But if $A = 6$, $7 + B$ must be larger than 9. Hence, it is impossible.
(ii) If $7 + B \geq 9$
$\therefore 1 + 3 + A = 9$
$\Rightarrow A = 5$
If $A = 5$ and $7 + B = 5$, B must be 8
$\therefore A = 5, B = 8$

Playing With Numbers Ex 5.3 Q2

Answer :

Two possibilities of A are :
(i) If $B + 7 \leq 9$, $A = 6$
But clearly, if $A = 6$, $B + 7 \geq 9$; it is impossible
(ii) If $B + 7 \geq 9$, $A = 5$ and $B + 7 = 5$
Clearly, $B = 8$
$\therefore A = 5, B = 8$

Playing With Numbers Ex 5.3 Q3

Answer :

$$\text{If } 1 + B = 0$$
$$\text{Surely, } B = 9$$
$$\text{If } 1 + A + 1 = 9$$
$$\text{Surely, } A = 7$$

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