Playing With Numbers Ex 5.3 Q4

Answer :

$$B + 1 = 8, B = 7$$
$$A + B = 1, A + 7 = 1, A = 4$$
$$So, A = 4, B = 7$$

Playing With Numbers Ex 5.3 Q5

Answer :

$A + B = 9$ as the sum of two digits can never be 19
$2 + A = 0$, A must be 8
$A + B = 9, 8 + B = 9, B = 1$
$So, A = 8, B = 1$

Playing With Numbers Ex 5.3 Q6

Answer :

$If\ A + B = 8, A + B \geq 9$ is possible only if $A = B = 9$
But from $7 + B = A, A = B = 9$ is impossible
Surely, $A + B = 8, A + B \leq 9$
So, $A + 7 = 9$, Surely $A = 2$
$7 + B = A, 7 + B = 2, B = 5$
So, $A = 2, B = 5$

Playing With Numbers Ex 5.3 Q7

Answer :

0 is the only unit digit number, which gives the same 0 at the unit digit when multiplied by 4. So, the possible value of B is 0.
Similarly, for A also, 0 is the only possible digit.
But then A, B and C will all be 0.
And if A, B and C become 0, these numbers cannot be of two – digit or three – digit.
Therefore, both will become a one – digit number.
Thus, there is no solution possible.

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