

NCERT SOLUTIONS FOR CLASS-8 MATHS CHAPTER-16 PLAYING WITH NUMBERS EX 16.1

Find the values of the letters in each of the following and give reasons for the steps involved.

Q1.

Ans: On putting A = 1, 2, 3, 4, 5, 6, 7 and so on and we get, 7 + 5 = 12 in which ones place is 2.

$$\dot{\cdot} \cdot A = 7$$

And putting 2 and carry over 1, we get

$$B = 6$$

Hence A = 7 and B = 6

Q2.

Ans: On putting A = 1, 2, 3, 4, 5, 6, 7 and so on and we get,8 + 5 = 13 in which ones place is 3.

$$\therefore A = 5$$

And putting 3 and carry over 1, we get

$$B = 4$$
 and $C = 1$

Hence A = 5, B = 4 and C = 1

Q3.

Ans: On putting A = 1, 2, 3, 4, 5, 6, 7 and so on and we get, $A \times A = 6 \times 6 = 36$ in which ones place is 6.

$$\therefore A = 6$$

Hence A = 6

Ans: Here, we observe that B = 5

so that
$$7 + 5 = 12$$
.

Putting 2 at ones place and carry over 1 and A = 2, we get

$$2+3+1=6$$

Hence A = 2 and B = 5

Q5.

Ans: Here on putting B = 0,

we get
$$0 \times 3 = 0$$
.

And
$$A = 5$$
, then $5 \times 3 = 15$

$$\Rightarrow$$
 A = 5 and C = 1

Hence A = 5, B = 0 and C = 1

Q6.

Ans: On putting B = 0, we get 0, 5 = 0 and A = 5, then 5^{\times} 5 = 25

$$\Rightarrow$$
 A = 5, C = 2

Hence A = 5, B = 0 and C = 2

Q7.

Ans: Here product of B and 6 must be same as ones place digit as B.

$$6 \times 1 = 6, 6 \times 2 = 12, 6 \times 3 = 18,$$

$$6 \times 4 = 24$$

On putting B = 4, we get the ones digit 4 and remaining two B's value should be 44.

$$\therefore$$
 For 6 \times 7 = 42 + 2 = 44

Hence A = 7 and B = 4

Q8.

Ans: On putting B = 9, we get 9 + 1 = 10

Putting 0 at ones place and carry over 1, we get

For
$$A = 7 \Rightarrow 7 + 1 + 1 = 9$$

Hence A = 7 and B = 9

Q9.

Ans: On putting B = 7,

$$\Rightarrow$$
 7 + 1 = 8

Now
$$A = 4$$
, then $4 + 7 = 11$

Putting 1 at tens place and carry over 1, we get

$$2 + 4 + 1 = 7$$

Hence A = 4 and B = 7

Q10.

Ans: Putting A = 8 and B = 1, we get

8 + 1 = 9

Now again we add 2 + 8 = 10

Tens place digit is '0' and carry over 1.

Now 1 + 6 + 1 = 8 = A

Hence A = 8 and B = 1

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