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Name: ..... Class: .....

Missing digits addition: up to 3-digits

Find the missing digits from the following expressions.

a.

$$\begin{array}{r} 4\,5\,6 \\ +\ 1\,_\,2 \\ \hline \boxed{_\,2\,8} \end{array}$$

b.

$$\begin{array}{r} 3\,_\,2 \\ +\ _\,9\,_ \\ \hline \boxed{9\,5\,8} \end{array}$$

c.

$$\begin{array}{r} _\,6\,1 \\ +\ 3\,_\,2 \\ \hline \boxed{1,0\,0\,3} \end{array}$$

d.

$$\begin{array}{r} 5\,9\,_ \\ +\ _\,2\,3 \\ \hline \boxed{1,3\,1\,8} \end{array}$$

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Solution

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Missing digits addition: up to 3-digits

Find the missing digits from the following expressions.

a.

$$\begin{array}{r} 4\ 5\ 6 \\ +\ 1\ _\ 2 \\ \hline \end{array}$$

$$\boxed{_\ 2\ 8}$$

First of all, let's start adding from the ones digit until we get to the missing digits

$$\begin{array}{r} 4\ 5\ 6 \\ +\ 1\ 7\ 2 \\ \hline \end{array}$$

$$\boxed{_\ 2\ 8}$$

Now, let's think of a number that when we add to 5 will make the answer end with 2. we know that 7 + 5 = 12

$$\begin{array}{r} 4\ 5\ 6 \\ +\ 1\ 7\ 2 \\ \hline \end{array}$$

$$\boxed{6\ 2\ 8}$$

Finally, 4 + 1 = 5, plus the carry over from the tens place 5 + 1 = 6
Therfore, the missing digits are 7 and 6 respectively.

b.

$$\begin{array}{r} 3\ _\ 2 \\ +\ _\ 9\ 6 \\ \hline \end{array}$$

$$\boxed{9\ 5\ 8}$$

As we begin from the ones place, let's think of a number that when we add to 2, will make the answer end with 8.
We know that 2+ 6 = 8
Now, let's move to the next place value.

Let's think of a number that when we add to 9 will make the answer end with 5.
We know that, 6 + 9 = 15.

$$\begin{array}{r} 3\ 6\ 2 \\ +\ _\ 9\ 6 \\ \hline \end{array}$$

$$\boxed{9\ 5\ 8}$$

Finally, let's think of a number that when we add to 3 plus the carried over (1) from the tens column we'll get 9.

We know that,
3 + 5 + 1 (carry over) = 9

$$\begin{array}{r} 3\ 6\ 2 \\ +\ 5\ 9\ 6 \\ \hline \end{array}$$

$$\boxed{9\ 5\ 8}$$

So, the missing digits are 6, 6 and 5 respectively.

c.

$$\begin{array}{r} _\ 6\ 1 \\ +\ 3\ _\ 2 \\ \hline \end{array} \quad \rightarrow \quad \begin{array}{r} 6\ 6\ 1 \\ +\ 3\ 4\ 2 \\ \hline \end{array}$$

$$\boxed{1,003} \qquad \boxed{1,003}$$

d.

$$\begin{array}{r} 5\ 9\ _ \\ +\ _\ 2\ 3 \\ \hline \end{array} \quad \rightarrow \quad \begin{array}{r} 5\ 9\ 5 \\ +\ 7\ 2\ 3 \\ \hline \end{array}$$

$$\boxed{1,318} \qquad \boxed{1,318}$$

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