

ADDITION FACTS



The sum is always greater than the numbers being added.

This is not true if one of the two numbers is zero.



- ❖ Numbers can be added in any order. Their sum will remain the same.
 $3 + 7 = 10$ and $7 + 3 = 10$
- ❖ When 1 is added to a number, the sum is the number after (successor).
 $18 + 1 = 19$ 19 is the successor of 18.
- ❖ When 0 is added to a number, the sum is the number itself.
 $4 + 0 = 4$ $0 + 51 = 51$

ADDITION BY EXPANDING NUMBERS

EXAMPLE 1 Find $45 + 23$.

$$\begin{array}{r} 45 \rightarrow 40 + 5 \\ + 23 \rightarrow 20 + 3 \\ \hline 60 + 8 = 68 \end{array}$$

Break 45 into 40 and 5.
Break 23 into 20 and 3.

ANS. 68

EXAMPLE 2 Add 64 and 35.

$$\begin{array}{r} 64 \rightarrow 60 + 4 \\ + 35 \rightarrow 30 + 5 \\ \hline 90 + 9 = 99 \end{array}$$

ANS. 99

H.W.
Do in
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Exercise 2.1

A. Fill in the blanks.

1. $8 + 16 = 16 + 8$

2. $4 + 19 = 19 + 4$

3. $1 + 99 = 100$

4. $143 + 1 = 144$

5. $61 + 0 = 61$

6. $0 + 440 = 440$

B. Add by expanding numbers.

1. $34 + 48 = \underline{\hspace{2cm}}$

2. $28 + 34 = \underline{\hspace{2cm}}$

3. $35 + 27 = \underline{\hspace{2cm}}$

4. $21 + 67 = \underline{\hspace{2cm}}$

5. $84 + 42 = \underline{\hspace{2cm}}$

6. $97 + 11 = \underline{\hspace{2cm}}$

7. $13 + 50 = \underline{\hspace{2cm}}$

8. $31 + 56 = \underline{\hspace{2cm}}$

9. $77 + 53 = \underline{\hspace{2cm}}$



Exercise - 2.1

B. Add by expanding numbers.

$$\begin{array}{r} \textcircled{1} \quad 34 + 48 \\ 34 \rightarrow 30 + 4 \\ + 48 \rightarrow 40 + 8 \\ \hline 70 + 12 \\ = 70 + 10 + 2 \\ = 80 + 2 = 82 \\ \text{Ans} \rightarrow 82. \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 28 + 34 \\ 28 \rightarrow 20 + 8 \\ + 34 \rightarrow 30 + 4 \\ \hline 50 + 12 \\ = 50 + 10 + 2 \\ = 60 + 2 = 62 \\ \text{Ans} \rightarrow 62. \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad 35 + 27 \\ 35 \rightarrow 30 + 5 \\ + 27 \rightarrow 20 + 7 \\ \hline 50 + 12 \\ = 50 + 10 + 2 \\ = 60 + 2 = 62 \\ \text{Ans} \rightarrow 62 \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad 77 + 53 \\ 77 \rightarrow 70 + 7 \\ + 53 \rightarrow 50 + 3 \\ \hline 120 + 10 \\ = 130 \\ \text{Ans} \rightarrow 130 \end{array}$$

$$\begin{array}{r} \textcircled{5} \quad 84 + 42 \\ 84 \rightarrow 80 + 4 \\ + 42 \rightarrow 40 + 2 \\ \hline 120 + 6 = 126 \\ \text{Ans} \rightarrow 126 \end{array}$$

$$\begin{array}{r} \textcircled{6} \quad 13 + 50 \\ 13 \rightarrow 10 + 3 \\ 50 \rightarrow 50 + 0 \\ \hline 60 + 3 = 63 \\ \text{Ans} \rightarrow 63 \end{array}$$

H.W. → DO Exercise 2.1 (a) copy