

Class: 2nd.

Sub: Maths

Addition

Q. What is Addition?

Ans: When we put objects of two or more collections together it is called Addition.

Ex: 3.1

$$1. \begin{array}{ccc} 0 & 0 & + \\ 0 & 0 & \end{array} \begin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array} = \begin{array}{ccccc} 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \end{array}$$

$$= 4 + 6 = 10$$

$$2. \begin{array}{cccc} \text{apple} & \text{apple} & \text{apple} & \text{apple} \\ \text{apple} & \text{apple} & & \end{array} + \begin{array}{ccc} \text{apple} & \text{apple} & \text{apple} \\ \text{apple} & & \end{array} =$$

$$7 + 5 = 12$$

$$3. \begin{array}{cc} \text{ball} & \text{ball} \\ & \end{array} + \begin{array}{ccc} \text{ball} & \text{ball} & \text{ball} \\ \text{ball} & \text{ball} & \text{ball} \end{array} =$$

$$2 + 6 = 8$$

$$4. \begin{array}{cccc} \text{egg} & \text{egg} & \text{egg} & \text{egg} \\ \text{egg} & \text{egg} & & \end{array} + \begin{array}{cccc} \text{egg} & \text{egg} & \text{egg} & \text{egg} \\ \text{egg} & \text{egg} & \text{egg} & \text{egg} \end{array} =$$

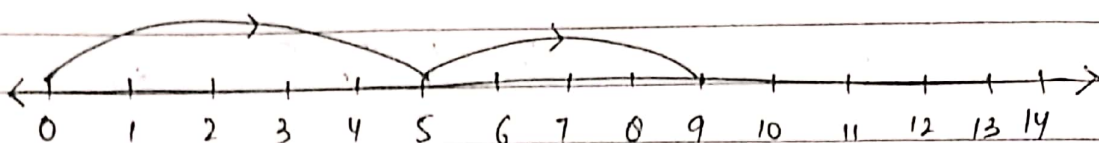
$$7 + 8 = 15$$

Addition on the number line

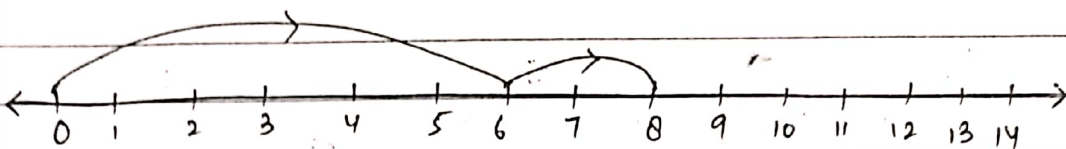
We can use a number line for adding numbers.

Ex: 3.2

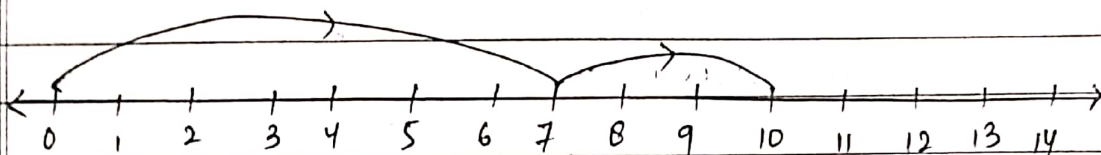
1. $5 + 4 = 9$



2. $6 + 2 = 8$



3. $7 + 3 = 10$



Ex: 3.3

Find the sum of these numbers by counting forward.

1. $9 + 8 = 17$

9 > 10 > 11 > 12 > 13 > 14 > 15 > 16 > 17

2. $8 + 7 = 15$

$$\boxed{8} > 9 > 10 > 11 > 12 > 13 > 14 > 15$$

$$3. \quad 6 + 9 = 15$$

$$\boxed{6} > 7 > 8 > 9 > 10 > 11 > 12 > 13 > 14 > 15$$

Ex: 3.4.

Add the following numbers.

$$1. \quad 3 + 4 + 3 = \boxed{10} \quad 2. \quad 6 + 2 + 4 = \boxed{12}$$

$$3. \quad 4 + 2 + 1 = \boxed{7} \quad 4. \quad 1 + 7 + 3 = \boxed{11}$$

$$5. \quad 2 + 1 + 6 = \boxed{9} \quad 6. \quad 4 + 1 + 3 = \boxed{8}$$

Ex: 3.5

Fill in the blanks.

$$1. \quad 7 + 3 = \boxed{10} \quad 2. \quad 3 + 7 = \boxed{10} \quad 7. \quad 7 + 1 = \boxed{8}$$

$$3. \quad 4 + 5 = \boxed{9} \quad 4. \quad 5 + 4 = \boxed{9} \quad 8. \quad 14 + 1 = \boxed{15}$$

$$5. \quad 6 + 9 = \boxed{15} \quad 6. \quad 6 + 8 = \boxed{14} \quad 9. \quad 0 + 39 = \boxed{39}$$

Ex: 3.6

Draw lines and add.

$$a. \quad \begin{array}{|l} 6 \\ 2 \\ \hline 8 \end{array} \quad \begin{array}{l} \text{|||||} \\ \text{||} \end{array}$$

$$b. \quad \begin{array}{|l} 9 \\ 4 \\ \hline 13 \end{array} \quad \begin{array}{l} \text{|||||} \\ \text{||||} \end{array}$$

$$c. \quad \begin{array}{|l} 7 \\ 3 \\ \hline 10 \end{array} \quad \begin{array}{l} \text{|||||} \\ \text{|||} \end{array}$$

$$\begin{array}{r} \text{d.} \\ 5 \\ + 4 \\ \hline 9 \end{array} \begin{array}{l} \text{|||||} \\ \text{||||} \end{array}$$

$$\begin{array}{r} \text{e.} \\ 8 \\ + 8 \\ \hline 16 \end{array} \begin{array}{l} \text{|||||} \\ \text{|||||} \\ \text{|||||} \end{array}$$

$$\begin{array}{r} \text{f.} \\ 7 \\ + 4 \\ \hline 11 \end{array} \begin{array}{l} \text{|||||} \\ \text{||||} \end{array}$$

Ex: 3.7.

Find the sum of the following numbers.

$$\begin{array}{r} \text{a.} \\ \text{T} \text{ } 0 \\ 1 \text{ } 7 \\ + 2 \text{ } 2 \\ \hline 3 \text{ } 9 \end{array}$$

$$\begin{array}{r} \text{b.} \\ \text{T} \text{ } 0 \\ 3 \text{ } 5 \\ + 4 \text{ } 2 \\ \hline 7 \text{ } 7 \end{array}$$

$$\begin{array}{r} \text{c.} \\ \text{T} \text{ } 0 \\ 1 \text{ } 5 \\ 5 \text{ } 4 \\ \hline 6 \text{ } 9 \end{array}$$

$$\begin{array}{r} \text{d.} \\ \text{T} \text{ } 0 \\ 7 \text{ } 7 \\ + 2 \text{ } 1 \\ \hline 9 \text{ } 8 \end{array}$$

$$\begin{array}{r} \text{e.} \\ \text{T} \text{ } 0 \\ 5 \text{ } 3 \\ 2 \text{ } 3 \\ \hline 7 \text{ } 6 \end{array}$$

$$\begin{array}{r} \text{f.} \\ \text{T} \text{ } 0 \\ 3 \text{ } 4 \\ 5 \text{ } 2 \\ \hline 8 \text{ } 6 \end{array}$$

Ex: 3.11

Add the following using "Carry over".

$$\begin{array}{r} \text{a.} \\ \text{T} \text{ } 0 \\ 2 \text{ } 8 \\ + 4 \text{ } 5 \\ \hline 7 \text{ } 3 \end{array}$$

$$\begin{array}{r} \text{b.} \\ \text{T} \text{ } 0 \\ 3 \text{ } 2 \\ + 5 \text{ } 9 \\ \hline 9 \text{ } 1 \end{array}$$

$$\begin{array}{r} \text{c.} \\ \text{T} \text{ } 0 \\ 4 \text{ } 8 \\ + 2 \text{ } 7 \\ \hline 7 \text{ } 5 \end{array}$$

$$\begin{array}{r} \text{d.} \\ \text{T} \text{ } 0 \\ 86 \text{ } 8 \\ + 92 \text{ } 9 \\ \hline 97 \end{array}$$

$$\begin{array}{r} \text{e.} \\ \text{T} \text{ } 0 \\ 3 \text{ } 3 \\ + 1 \text{ } 7 \\ \hline 5 \text{ } 0 \end{array}$$

$$\begin{array}{r} \text{g.} \\ \text{T} \text{ } 0 \\ 7 \text{ } 7 \\ + 0 \text{ } 9 \\ \hline 8 \text{ } 6 \end{array}$$