## ADDITION WITH TEN FRAMES

## Addition with Ten frames

## Definition

$\checkmark$ A ten frame is a rectangle which is divided into 10 equal boxes or spaces.
$\checkmark$ The ten frame has two rows of five boxes each.
$\checkmark$ You can show numbers on ten frames by filling each boxes starting with the first row and then the second row when both the rows are full you have 10 objects in the ten frame.


## Representing numbers on ten frame

## Can you identify the numbers on ten frame?



This ten frame shows the number three.


This ten frame shows the number eight.

## Add $7+5$ using ten frame?

$>$ Lets use red counter for 7 and green counter for 5 .

$>$ To add $7+5$ we are going to use the ten frame
$>$ we can make one ten by taking some counters from the second number (5) and giving it to the other.
$>$ To make 10, seven needs 3 more counters.
$>$ So we take three counters from five and give it to 7 .


Here remaining 2 is there
$>$ Now we have 10 and 2 , so we add $10+2$

$$
\begin{gathered}
10+2=12 \\
\text { So } 7+5=10+2=12
\end{gathered}
$$

## Add $18+5$ using ten frame



18 strawberries are there

- Replace 2 mangoes from 5 mangoes and add the remaning mangoes


Here 18 strawberries and 2 mangoes are there. Total 20
$18+5=23$
So $\mathbf{1 8}+5=20+3=\mathbf{2 3}$

## Add $25+10$ using ten frame



Here 10 red mushrooms are there.

Here 25 blue mushrooms are there

- Replace 5 mushrooms from red mushrooms and add the remaining mushrooms.


Here 25 blue mushrooms and 5 red mushrooms are there. Total 30 mushrooms.


Here 5 red mushrooms are there.

$$
25+10=35
$$

So $25+10=30+5=\mathbf{3 5}$

## Example: 3

## Add $32+18$ using ten frame?




Here 18 purple stars are there.

Here 32 red stars are there

- Replace 8 stars from purple stars and add the remaining stars.
10

10

10

10


$$
40+10=50
$$

So $32+18=40+10=50$

Here 32 red stars and 8 purple stars are there.
Total 40 stars.


9


Here 20 blue fish are there.

Here 39 orange fish are there

- Replace 1 fish from blue fish and add the remaining fish.


Here 19 blue fish are there.

$$
40+19=59
$$

Here 39 orange fish and 1 blue fish are there. Total 40 fish

So $39+20=40+19=59$

