

Mixed numbers

Improper fractions are made up of some **wholes** and some **fractions of wholes**. The wholes and fractions of wholes are called a **mixed number**.

Example $1\frac{3}{4}$ is a mixed number because it has 1 as a whole number and $\frac{3}{4}$ as a fraction.

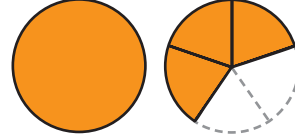
Examples



$$\frac{4}{4} + \frac{1}{4} = \frac{5}{4}$$

$$\frac{4}{4} = 1 \text{ whole}$$

$$1 \text{ whole} + \frac{1}{4} = 1\frac{1}{4}$$



$$1 \text{ whole} + \frac{3}{5} = 1\frac{3}{5}$$

$$1 \text{ whole} = 5 \text{ fifths or } \frac{5}{5}$$

$$1\frac{3}{5} = \frac{5}{5} + \frac{3}{5} = \frac{8}{5}$$

Practical

I'm a little mixed up



- fraction pieces
- fraction circles

Cut up your fraction pieces and circles to show these. Write the **improper fraction** for each.

a 1 whole and 3 eighths

b 1 whole and 2 thirds

c $1\frac{3}{4}$

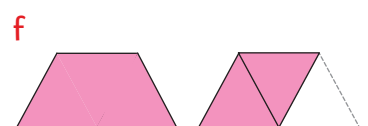
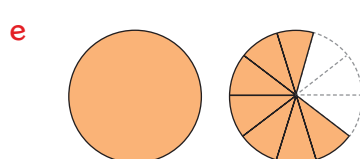
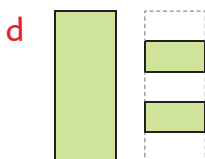
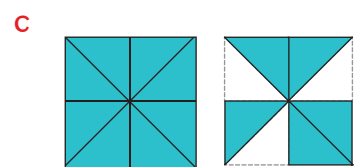
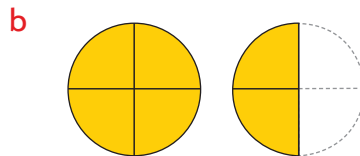
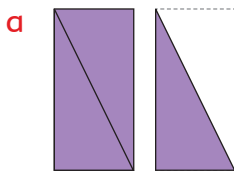
d $1\frac{5}{8}$

e $1\frac{7}{10}$



Activity 3

1 Write what each of the coloured sections shows as an improper fraction **and** a mixed number.

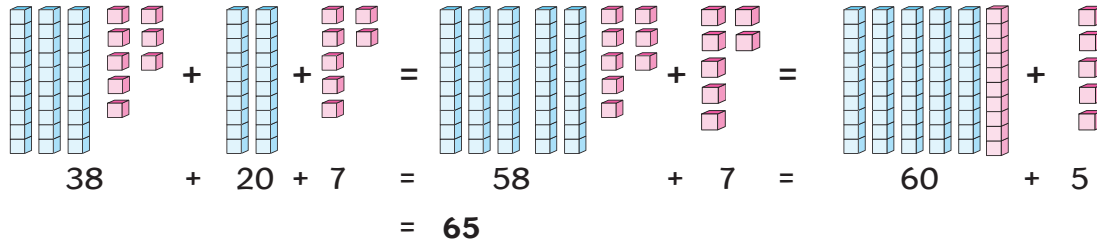


Example

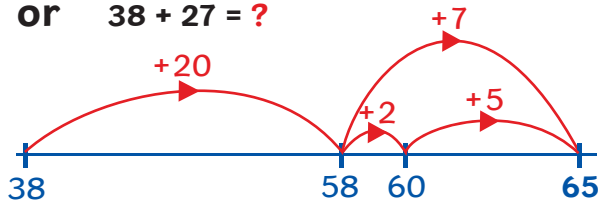
One morning Tamati saw 38 salmon while he was fishing in the river. In the afternoon he saw 27 more salmon. How many salmon is this altogether?



Answer $38 + 27 = ?$



or $38 + 27 = ?$



He saw **65 salmon** altogether.

Discussion



- What happens to the tens when the total number of ones is ten or more?

Activity 2



- Find the answers to these.
 - $16 + 27 =$
 - $18 + 36 =$
 - $38 + 25 =$
 - $34 + 27 =$

You could use place value materials to help.



- Tamati drew this table to show how many fish he had caught.

	Fishing spot 1	Fishing spot 2	Fishing spot 3	Fishing spot 4
Month 1	26	15	37	28
Month 2	37	26	45	38
Total	?	?	?	?

What is the total fish caught for each of these fishing spots?

- Fishing spot 1
- Fishing spot 2
- Fishing spot 3
- Fishing spot 4