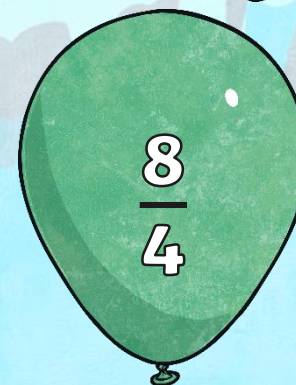
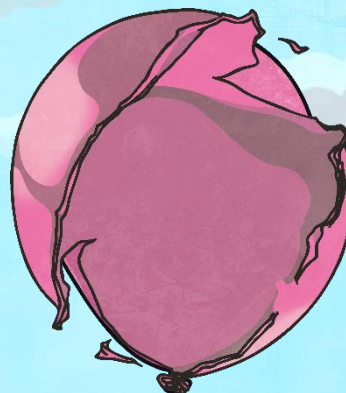
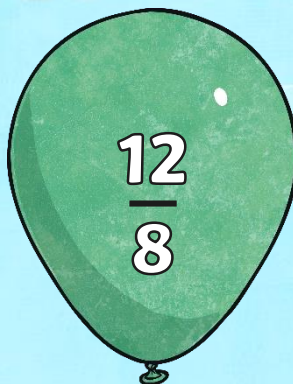
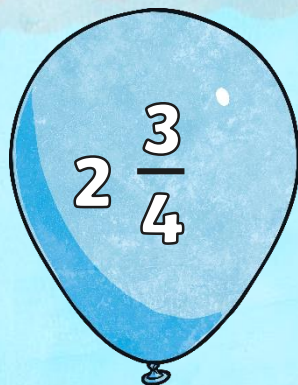
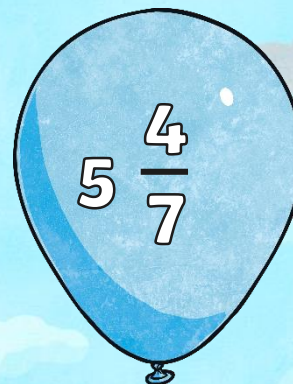


Adding and Subtracting Mixed numbers

Warm up- Can you remember what a **PROPER** fraction is?



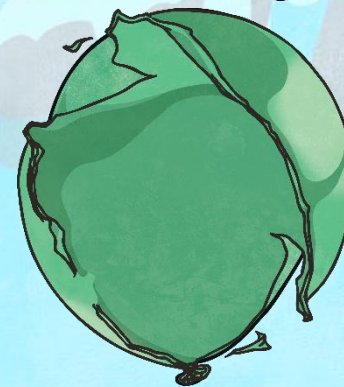
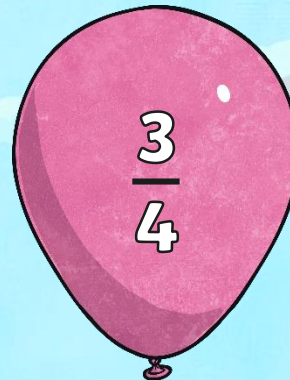
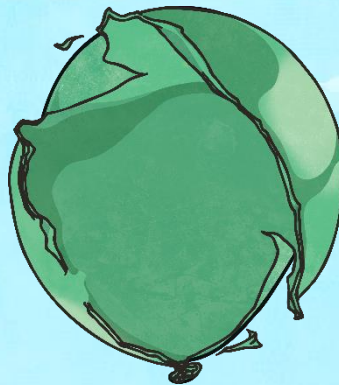
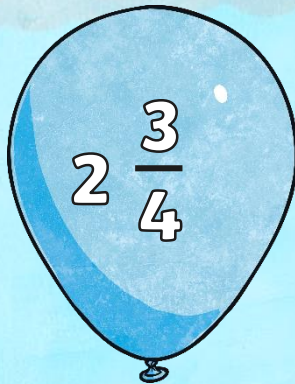
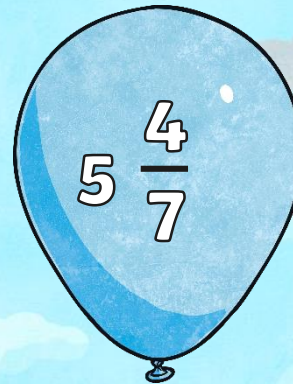
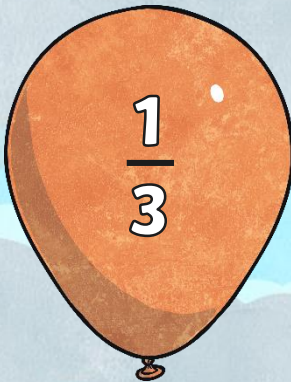
Pop the balloons which are **proper** fractions.



Improper Fraction?



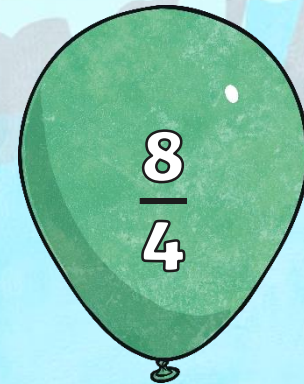
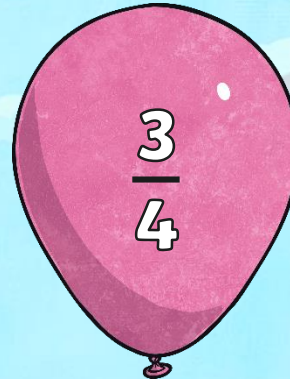
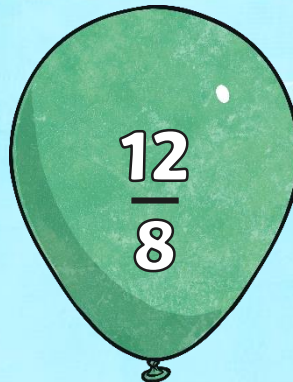
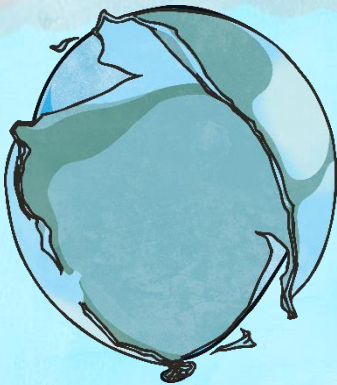
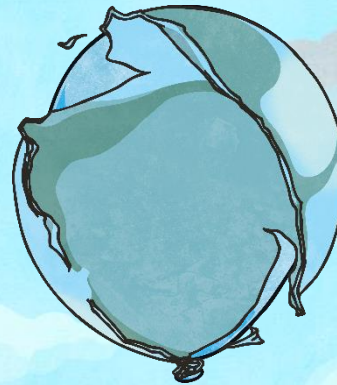
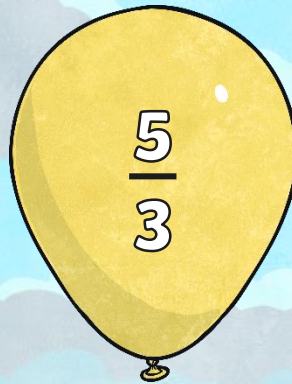
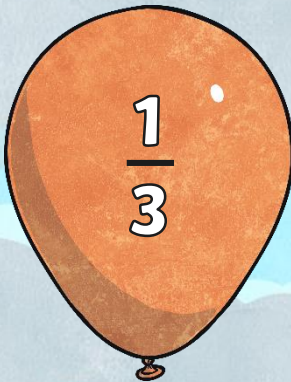
Pop the balloons which are **improper** fractions.



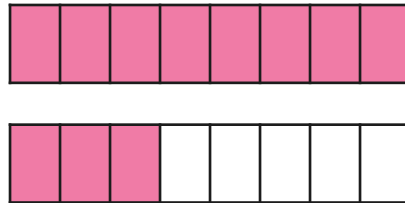
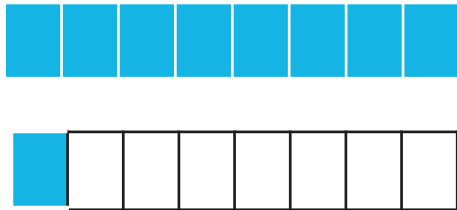
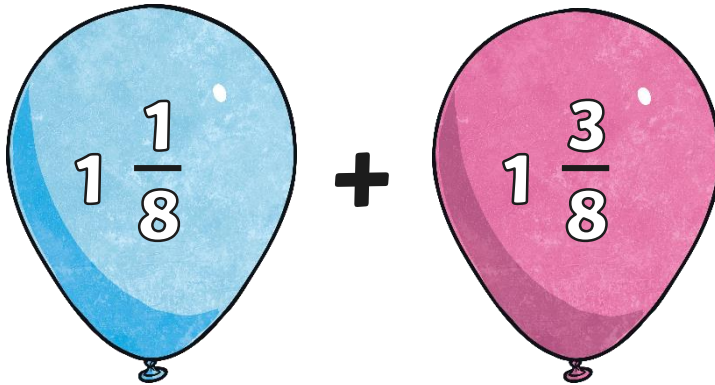
Mixed Number



Pop the balloons which are **mixed-number** fractions.



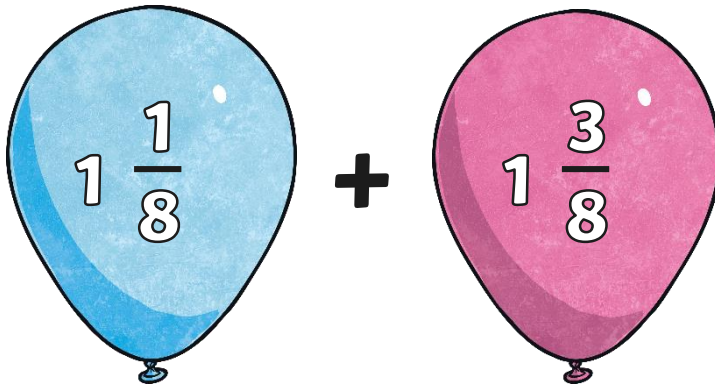
So how do we add mixed



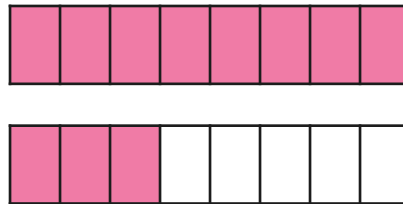
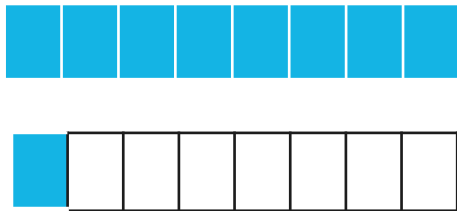
We can add the whole numbers and the fractions separately.



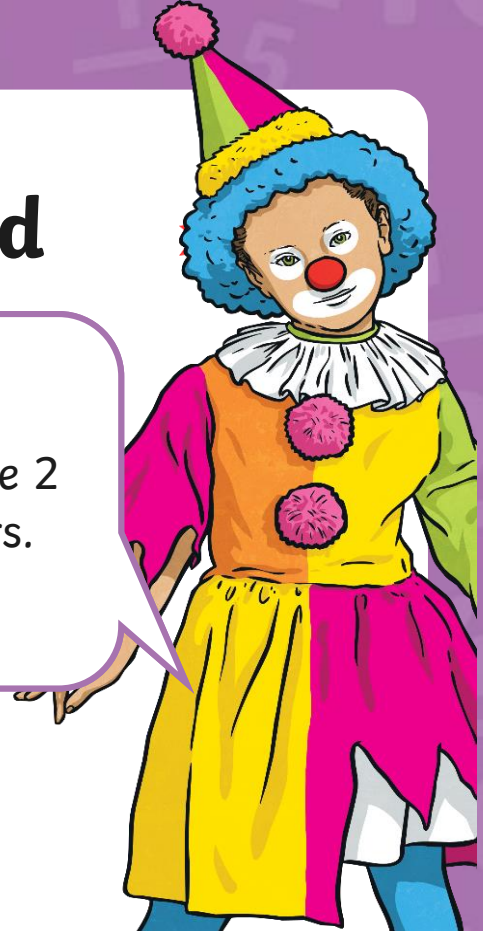
So how do we add mixed



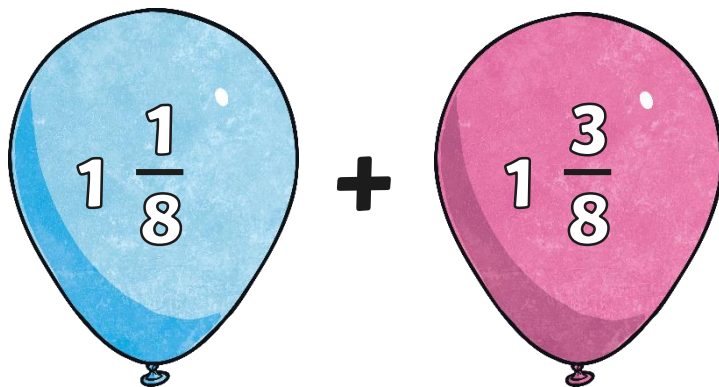
First we add the 2 whole numbers.



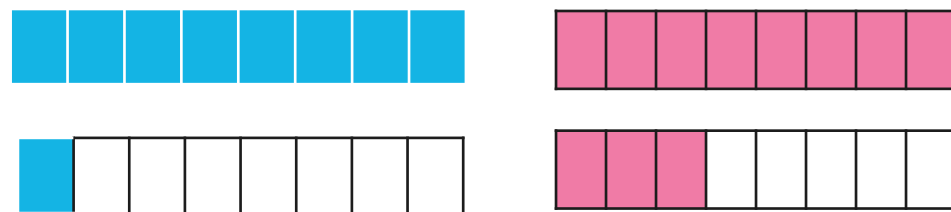
$$= 2$$



So how do we add mixed



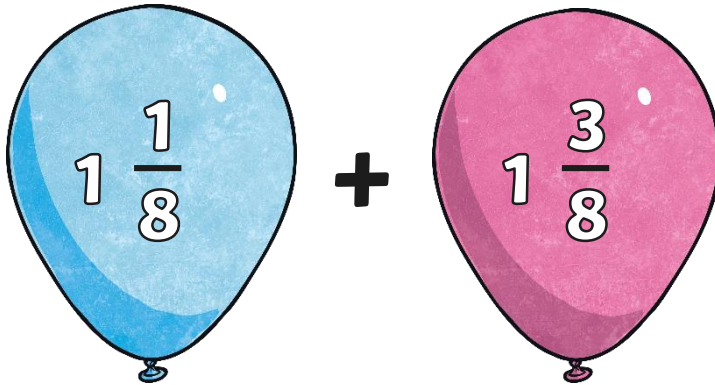
Now we add the fraction.



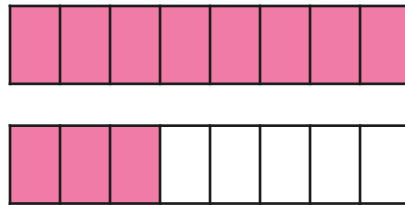
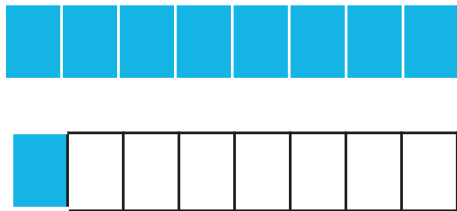
= 2

$$= \frac{1}{8} + \frac{3}{8} = \frac{4}{8}$$

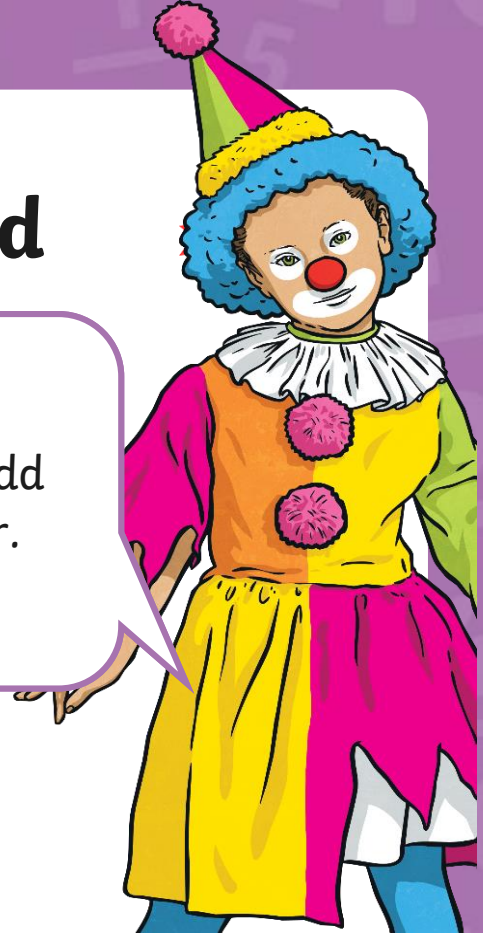
So how do we add mixed



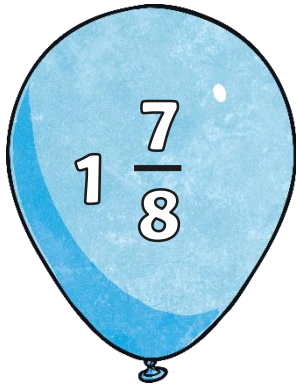
Now we just add the 2 together.



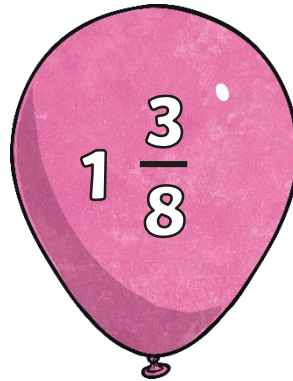
$$2 + \frac{4}{8} = 2\frac{4}{8}$$



What has happened on this one?



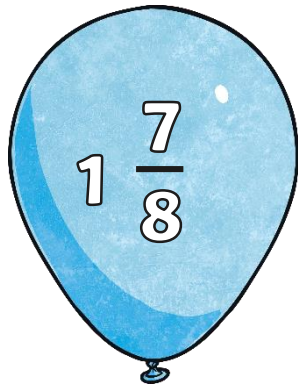
+



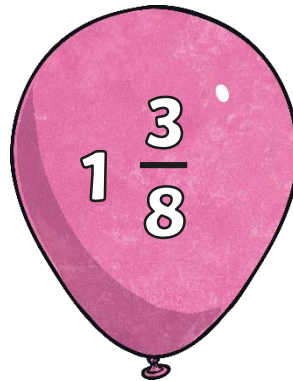
The answer is $2 \frac{10}{8}$



What has happened on this one?



+



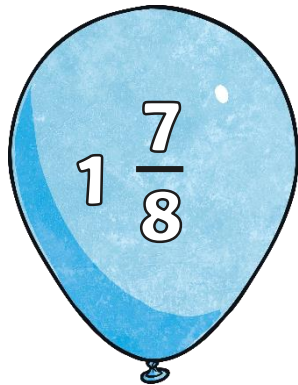
The answer is $2 \frac{10}{8}$



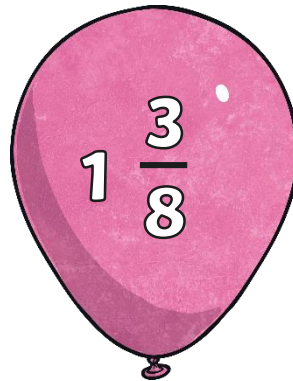
You can't have a mixed number and an improper fraction. What should we do?



What has happened on this one?



+



The answer is $2 \frac{10}{8}$



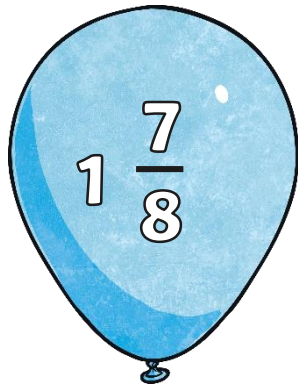
We need to convert the improper fraction.

$$\frac{10}{8} = 1 \frac{2}{8}$$

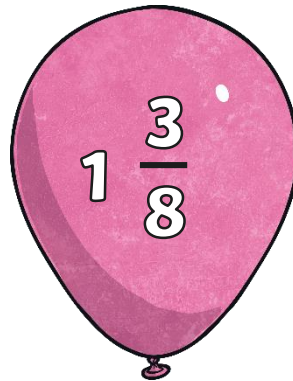
Now what?



What has happened on this one?



+



The answer is $2 \frac{10}{8}$

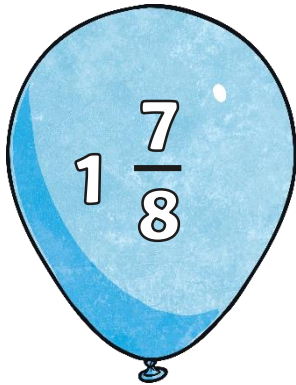


Add it to the 2!!!

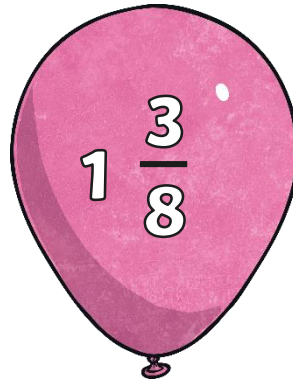
$$1 \frac{1}{8} + 2 = 3 \frac{2}{8}$$

Challenge:
Can you simplify
it?

What has happened on this one?



+



The answer is $2 \frac{10}{8}$



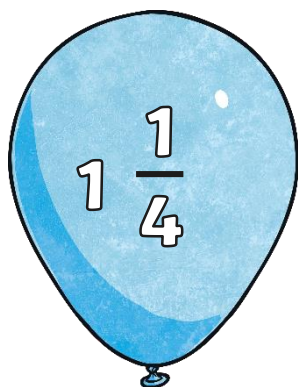
Add it to the 2!!!

$$1 \frac{1}{8} + 2 = 3 \frac{2}{8}$$

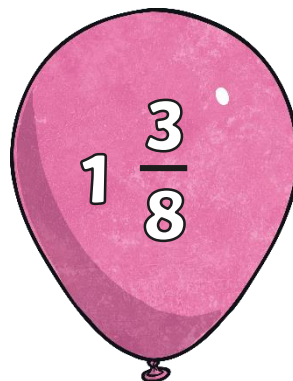
$$3 \frac{2}{8} = 3 \frac{1}{4}$$



What has happened now ?



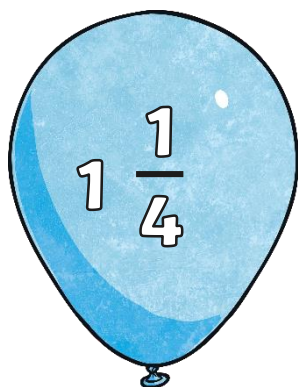
+



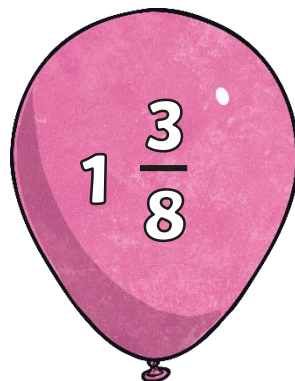
Can you spot the
extra step?



What has happened now ?



+

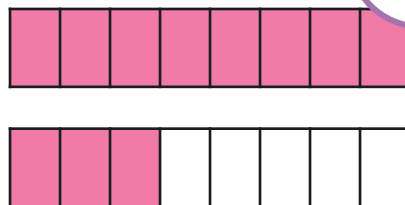
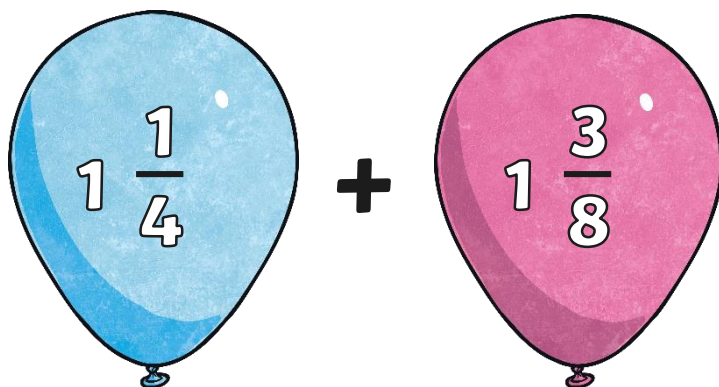


Yep!!!

All we need to do is
find the common
multiple and 4 and 8
to create equivalent
fractions.



What has happened now ?



Easy, I already know
that $\frac{1}{4} = \frac{2}{8}$
So now it becomes
 $1\frac{2}{8} + 1\frac{3}{8} = 2\frac{5}{8}$

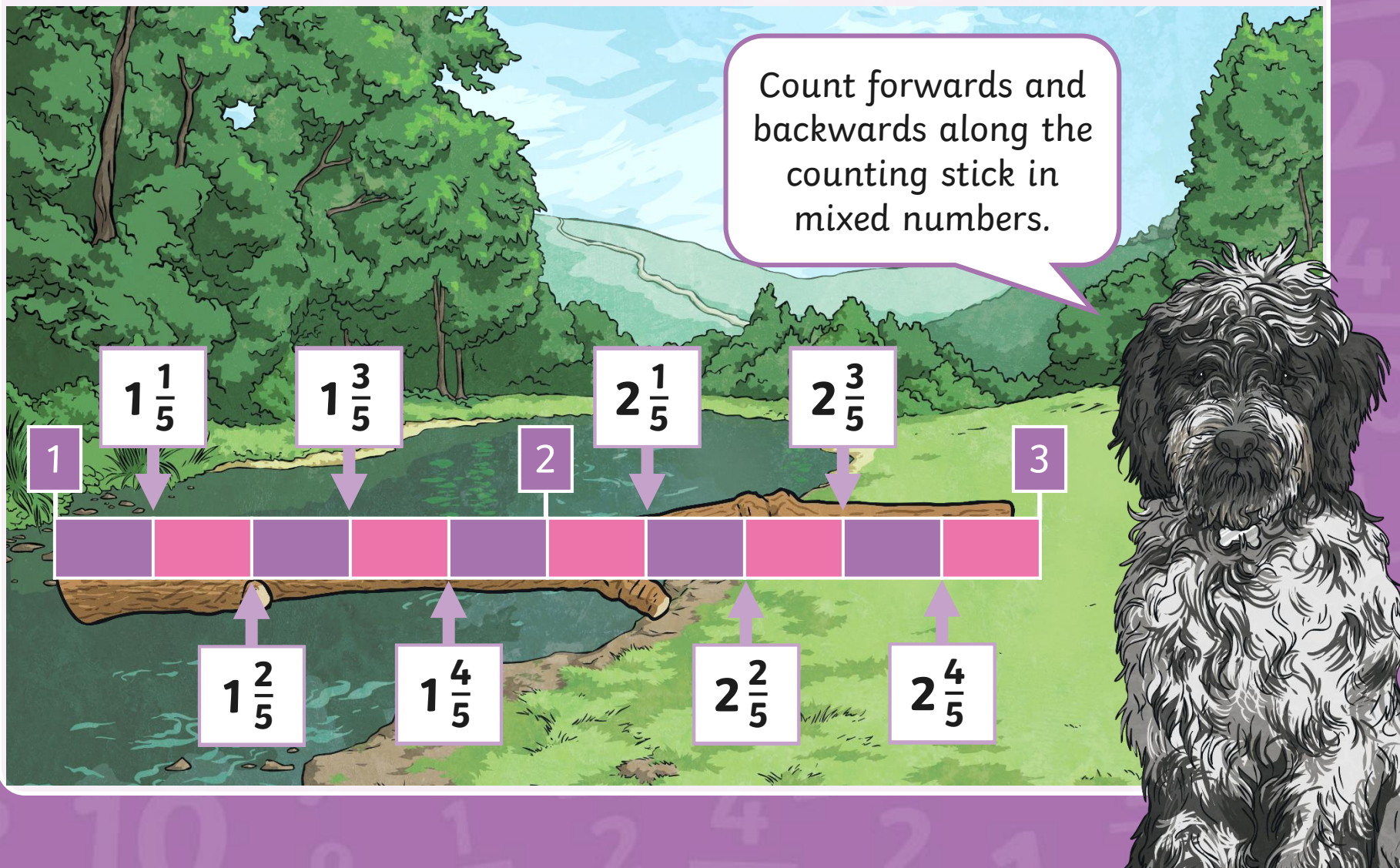


Now you try the questions on P1 of your new Home Learning pack.

Mixed-Number Fraction Count



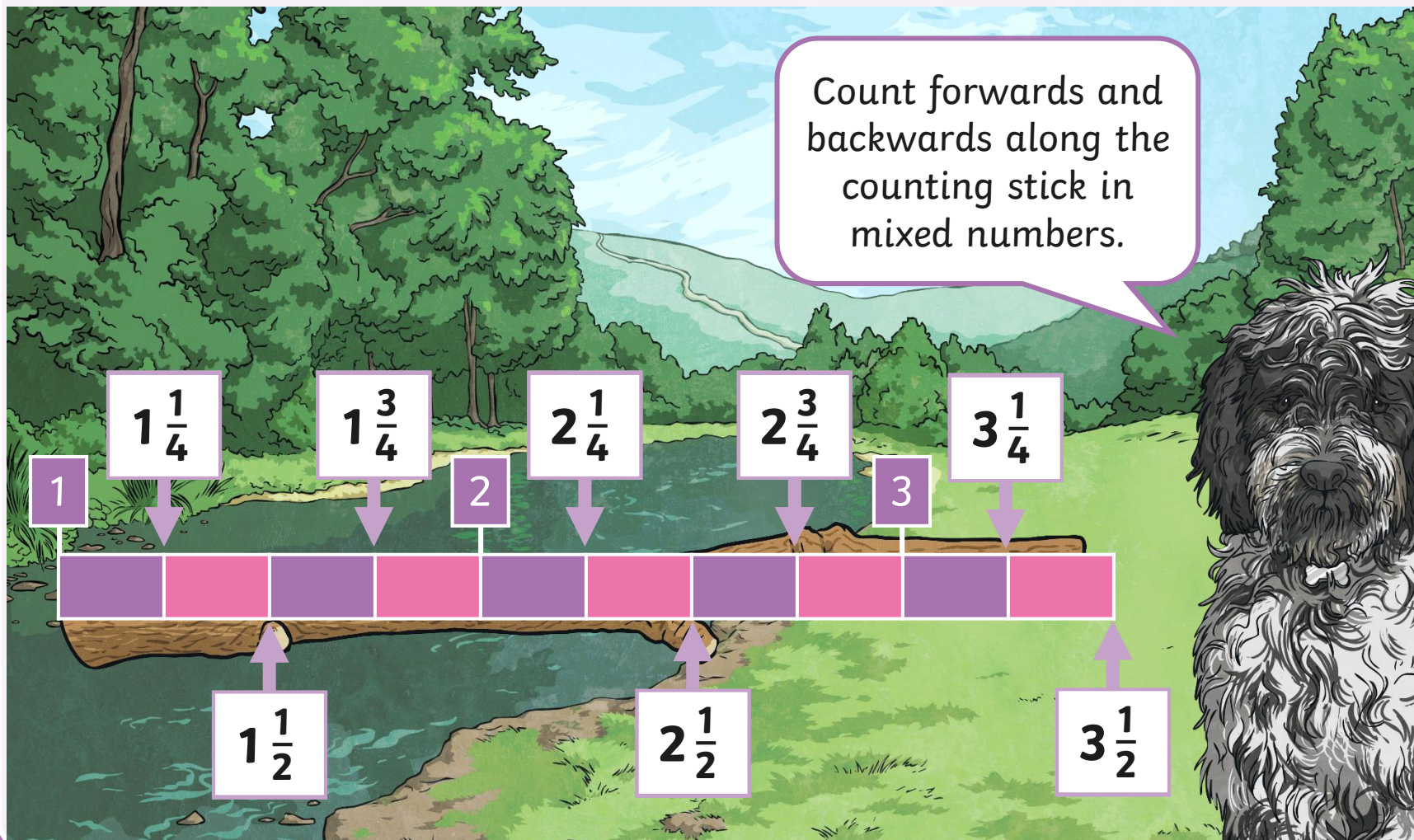
Count forwards and backwards along the counting stick in mixed numbers.



Mixed-Number Fraction Count



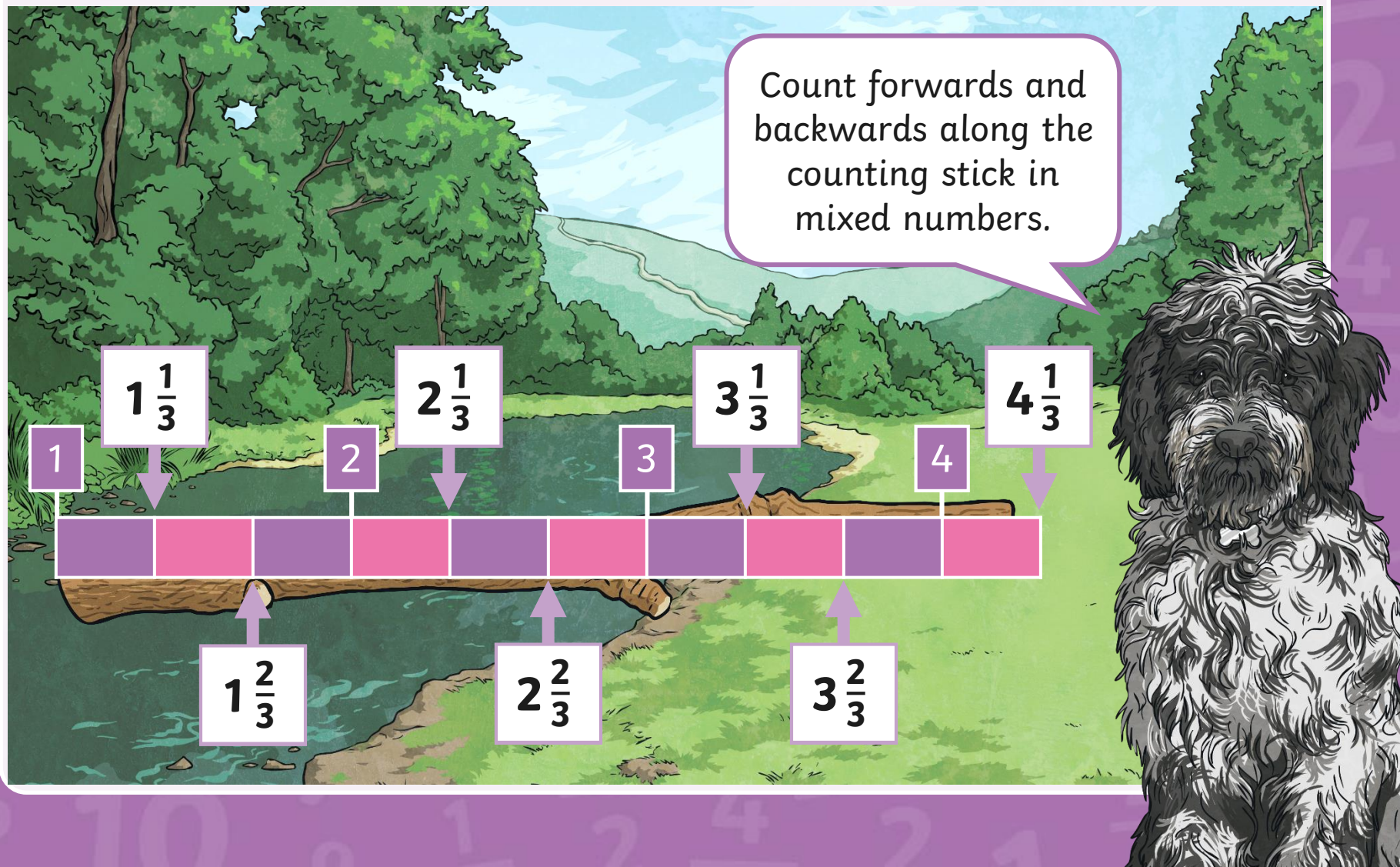
Count forwards and backwards along the counting stick in mixed numbers.



Mixed-Number Fraction Count



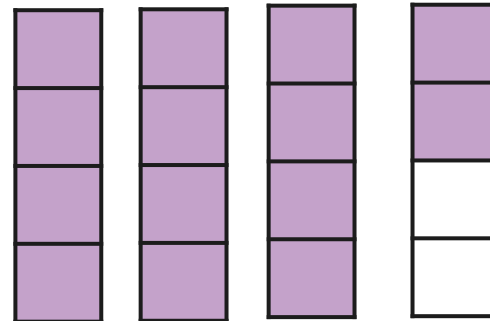
Count forwards and backwards along the counting stick in mixed numbers.



Subtraction with Regrouping

Easy!!!
 $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$
and $3 - 1 = 2$.
So.....

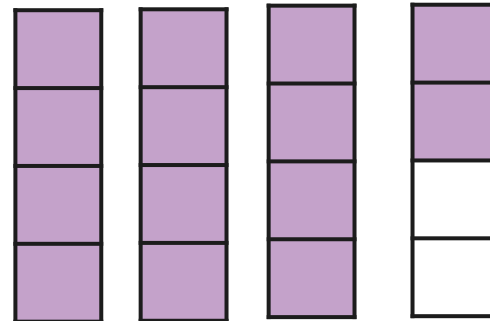
$$\begin{array}{r} 3\frac{3}{4} \\ - 1\frac{1}{4} \\ \hline \\ \hline \end{array}$$



Subtraction with Regrouping

Easy!!!
 $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$
and $3 - 1 = 2$.
So.....

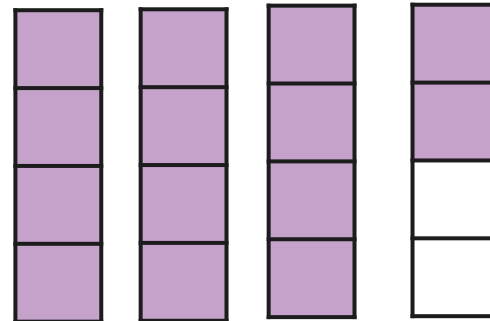
$$\begin{array}{r} 3\frac{3}{4} \\ - 1\frac{1}{4} \\ \hline 2\frac{2}{4} \end{array}$$



Subtraction with Regrouping

Can you simplify it?

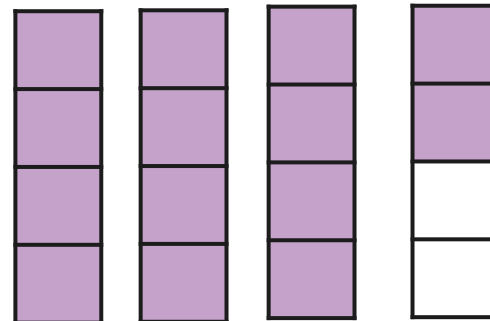
$$\begin{array}{r} 3\frac{3}{4} \\ - 1\frac{1}{4} \\ \hline 2\frac{2}{4} \end{array}$$



Subtraction with Regrouping

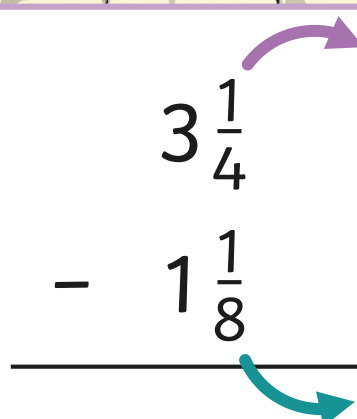
$$2\frac{2}{4} = 2\frac{1}{2}$$

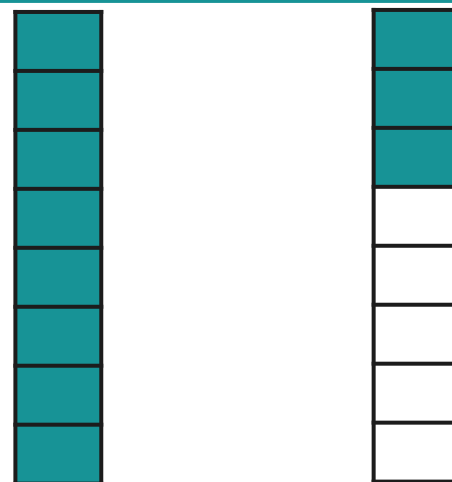
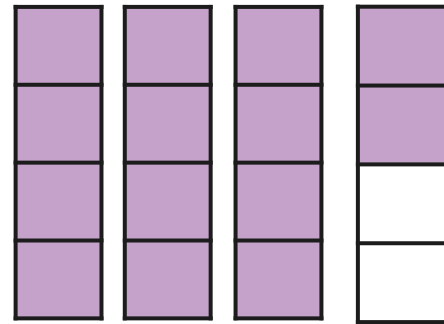
$$\begin{array}{r} 3\frac{3}{4} \\ - 1\frac{1}{4} \\ \hline 2\frac{2}{4} \end{array}$$



Subtraction with Regrouping

Have a think.
How would you subtract
these mixed numbers?.

$$\begin{array}{r} 3\frac{1}{4} \\ - 1\frac{1}{8} \\ \hline \\ \hline \end{array}$$


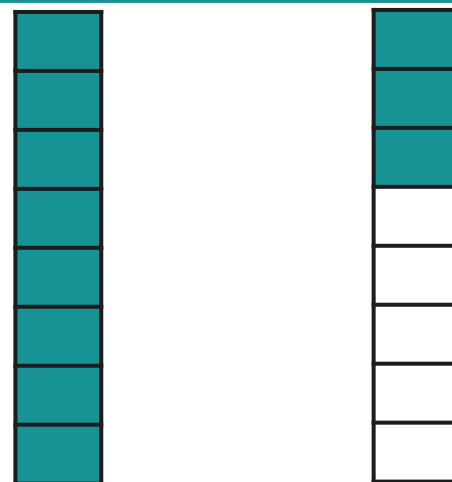
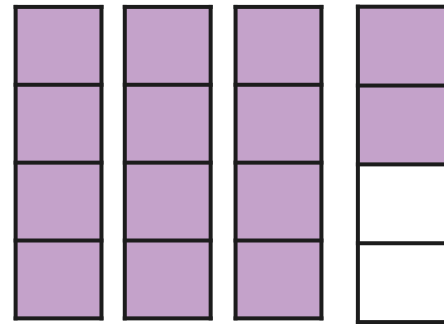


Subtraction with Regrouping

We need to find the equivalent fraction so they have common denominators.

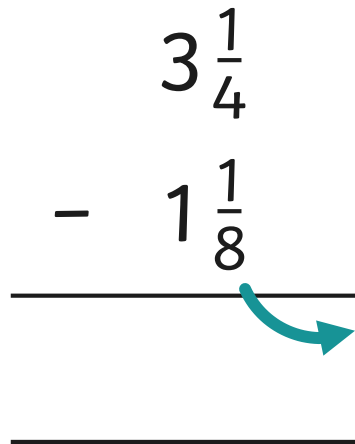

$$\begin{array}{r} 3\frac{1}{4} \\ - 1\frac{1}{8} \\ \hline \\ \hline \end{array}$$

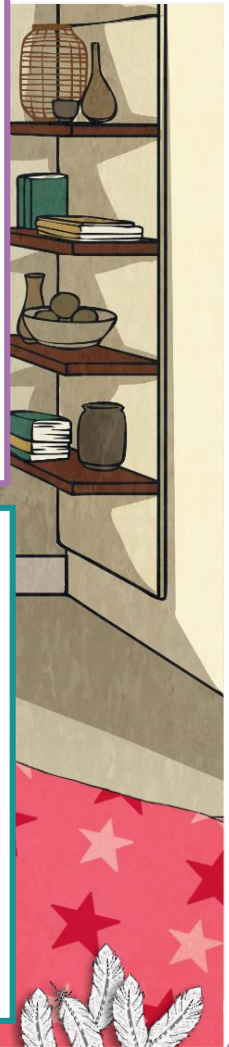
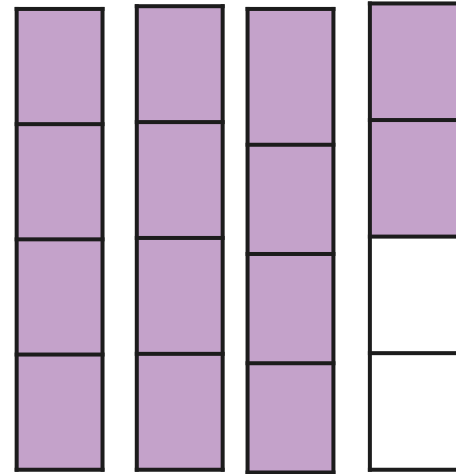
A purple arrow points from the $\frac{1}{4}$ to the $\frac{1}{8}$, and a green arrow points from the $\frac{1}{8}$ to the bottom line.



Subtraction with Regrouping

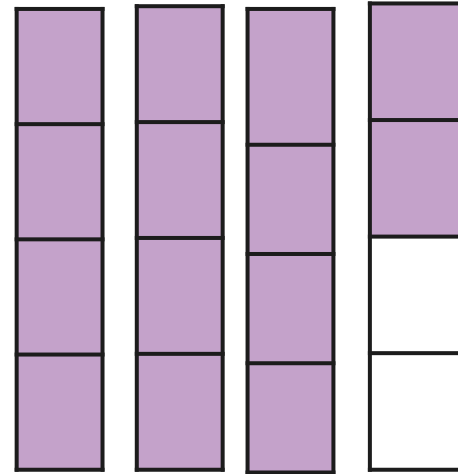
Easy!!! We know that $\frac{1}{4} = \frac{2}{8}$

$$\begin{array}{r} 3\frac{1}{4} \\ - 1\frac{1}{8} \\ \hline \\ \hline \end{array}$$




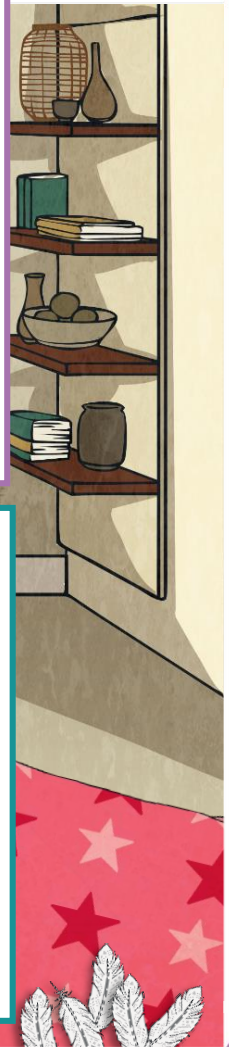
Subtraction with Regrouping

So it is $3\frac{2}{8} - 1\frac{1}{8} = 2\frac{1}{8}$



$$\begin{array}{r} 3\frac{1}{4} \\ - 1\frac{1}{8} \\ \hline \\ \hline \end{array}$$

A purple curved arrow points from the $\frac{1}{4}$ term to the $\frac{1}{8}$ term, indicating the conversion of the fraction. A green curved arrow points from the bottom line to the space below it, indicating where the answer should be written.



Your turn to
complete p2 in
your new maths
booklets.