Name _____ Date _____

Adding equal parts

Add fractions with the same denominator by counting the parts.

1 Learn



When fractions have the **same denominator**, all the parts are the same size. So to add them, just **count the parts**!



2 sevenths and 3 more sevenths make **5 sevenths**.

$$\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$$

Work out 3/8 + 4/8



1. The **denominator** (bottom number) is 8: the parts are **eighths**.

2. Add the **numerators** (top numbers): 3 + 4 = 7.

3. The parts are still eighths, so the denominator stays 8.

Answer: $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$

Flip's tip: say it in words: "3 eighths + 4 eighths = 7 eighths". Adding more parts doesn't change their size, so **the denominator doesn't change**.

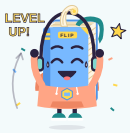
Warm up: fill in the numerators.

$$\frac{1}{5} + \frac{2}{5} = \frac{\square}{5} \qquad \frac{4}{9} + \frac{3}{9} = \frac{\square}{9} \qquad \frac{2}{6} + \frac{3}{6} = \frac{\square}{6}$$

Grown-ups: read Flip's words aloud. Saying fractions as words ("two sevenths") helps children see that sevenths are a kind of thing they are counting, just like apples.

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2 Try it together a child and a grown-up, about 10 minutes



Fold and colour

You need: a long strip of paper and two colouring pencils (two different colours).

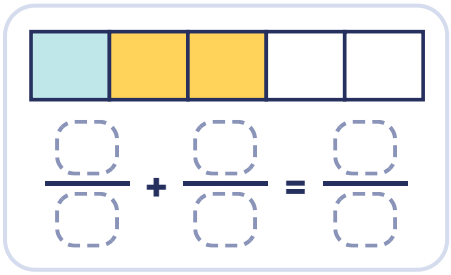
1. Fold the strip in half, then in half again, then in half again. Open it up: it has **8 equal parts**. Each part is one eighth.
2. The child colours some parts in the **first colour**. How many eighths is that?
3. The grown-up colours some more parts in the **second colour** (leave some white).
4. Count all the coloured parts. Write the addition in the table, such as 3/8 + 2/8 = 5/8. Use a new strip for each round.

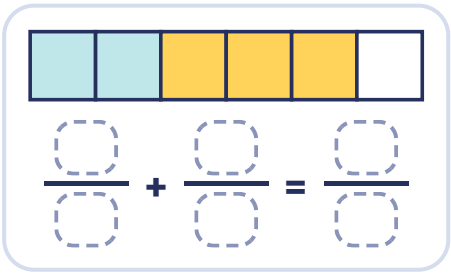
Round	First colour	Second colour	Altogether
1			
2			
3			

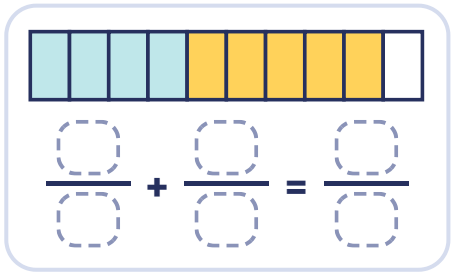
Grown-ups: if you have a sandwich or a cake to share, a grown-up can cut it into equal pieces and you can add the pieces on a plate in the same way. Ask "Why is the answer still in eighths?"

3 Practise

A. Write the addition for each bar: the blue parts add the yellow parts.







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B. Add the fractions.

$\frac{2}{7} + \frac{4}{7} = \frac{\square}{\square}$ $\frac{1}{4} + \frac{2}{4} = \frac{\square}{\square}$ $\frac{3}{10} + \frac{5}{10} = \frac{\square}{\square}$

$\frac{5}{12} + \frac{4}{12} = \frac{\square}{\square}$ $\frac{2}{9} + \frac{5}{9} = \frac{\square}{\square}$ $\frac{1}{3} + \frac{1}{3} = \frac{\square}{\square}$

C. Colour the bar to show the addition. Then write the answer.



$\frac{2}{8} + \frac{5}{8} = \frac{\square}{\square}$



$\frac{1}{6} + \frac{4}{6} = \frac{\square}{\square}$

D. Words and fractions.

3 fifths + 1 fifth = ☐ fifths

two ninths + four ninths = $\frac{\square}{\square}$

Challenge

Sam says, $\frac{2}{7} + \frac{3}{7} = \frac{5}{14}$ "because 2 + 3 = 5 and 7 + 7 = 14." Is he right?

Explain how you know.

_____

_____

_____

I can... Tick when you can.

- ☐ add fractions by adding the numerators
- ☐ keep the same denominator when I add
- ☐ explain why 2 sevenths + 3 sevenths is not 5 fourteenths