Year 4 Maths

Power Up

Make each calculation easier to solve.

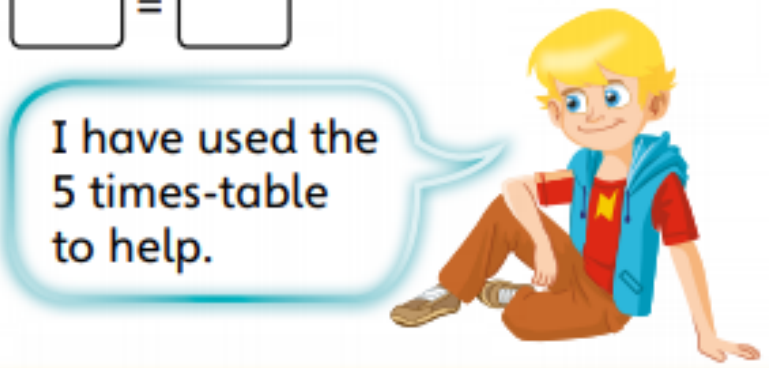
$4 \times 5 \times 3 = \square \times 3 = \square$

$2 \times 7 \times 5 = 2 \times \square \times 7 = \square \times 7 = \square$

$6 \times 3 \times 5 = 6 \times \square \times 3 = \square \times 3 = \square$

$5 \times 8 \times 2 = \square \times \square \times \square = \square \times \square = \square$

Write another calculation for your partner to complete.



Year 4 Maths
LO: To add fractions

Re-cap

What is a fraction and what do they look like?

Year 4 Maths
LO: To add fractions

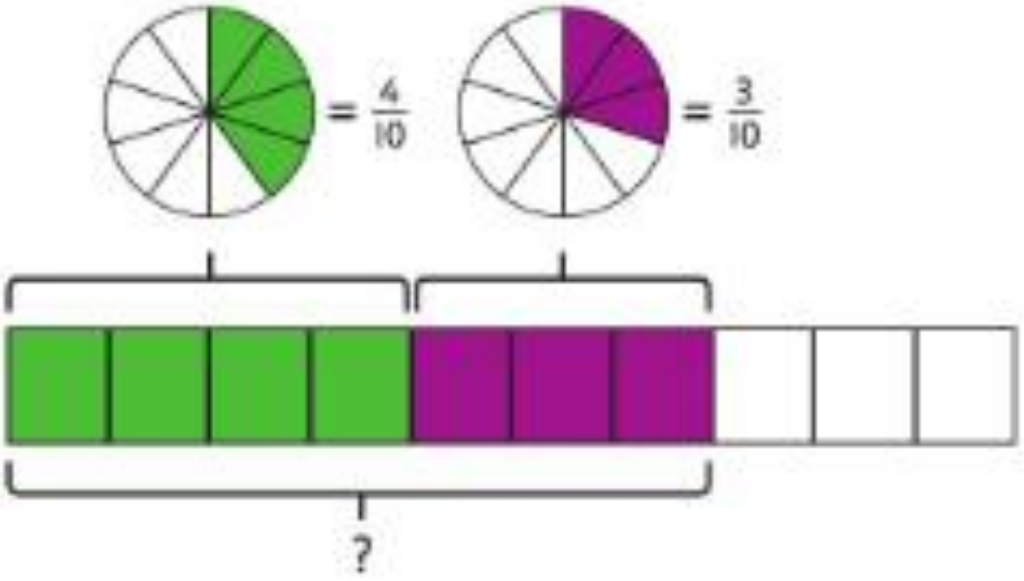
Let's look at this together:

Altogether, what fraction of the pizza is left in the boxes?

Year 4 Maths
LO: To add fractions

The first box has 4 tenths or $\frac{4}{10}$ of a pizza left.

The second box has 3 tenths or $\frac{3}{10}$ of a pizza left.

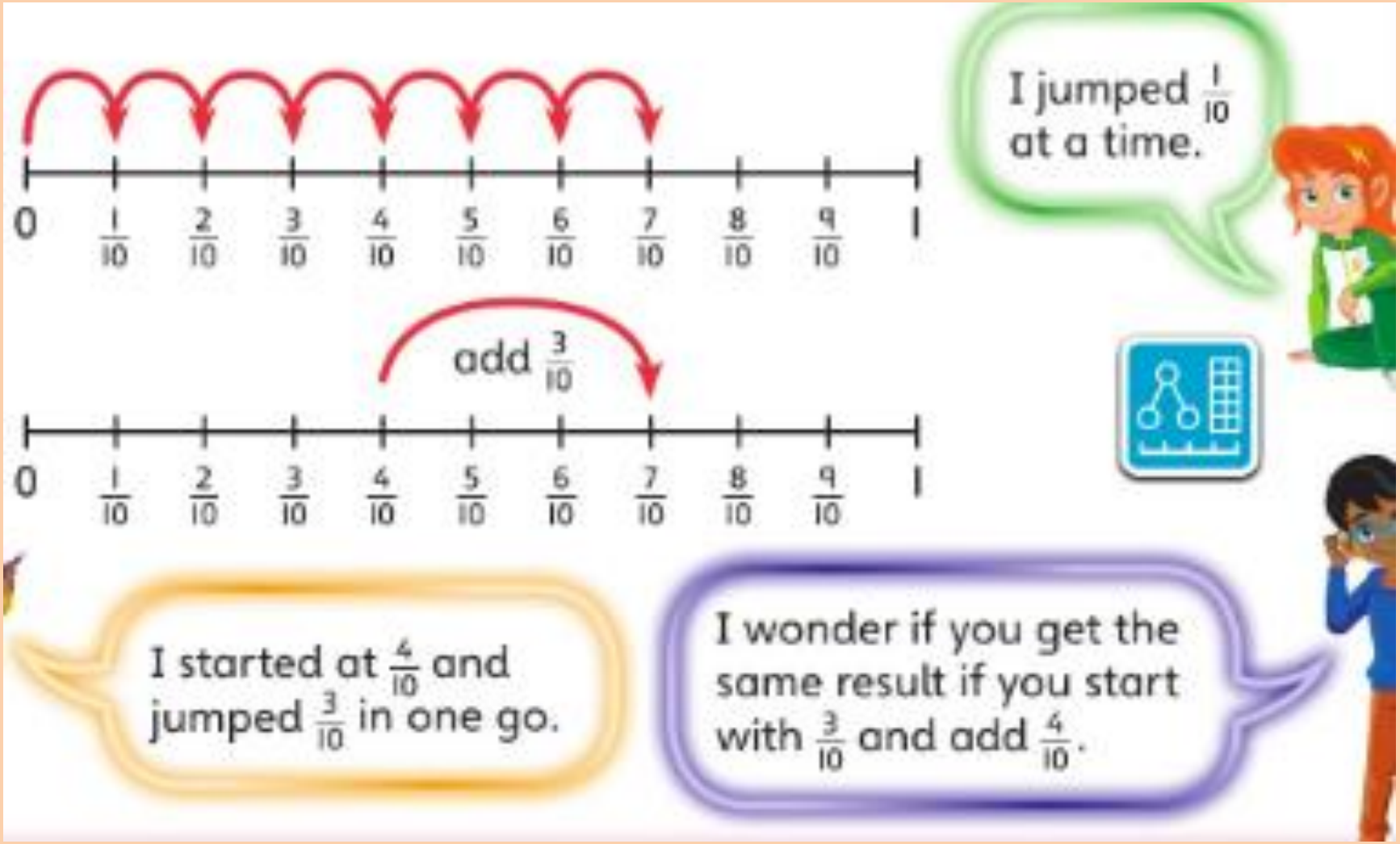


4 tenths + 3 tenths = 7 tenths

$\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$ So, altogether $\frac{7}{10}$ of a pizza is left in the boxes.

Let's see how we can show this on a number line...

Year 4 Maths
LO: To add fractions



Year 4 Maths
LO: To add fractions

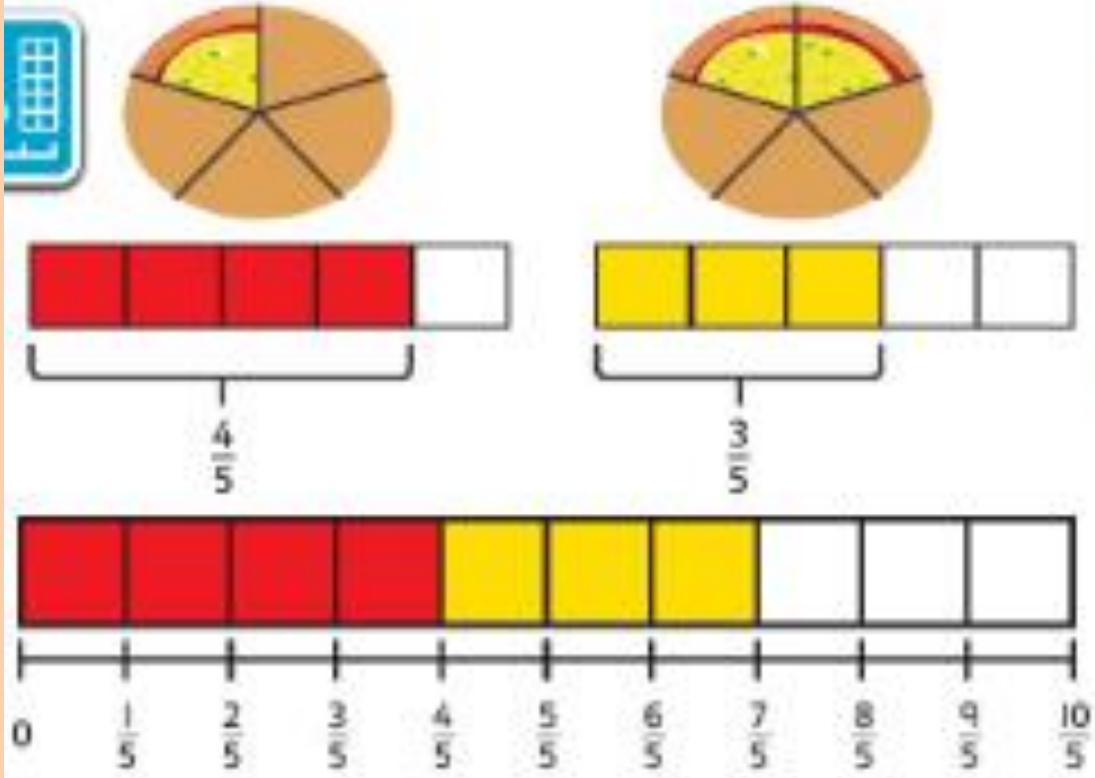
Try this one:

What fraction of pizza have Kate and Luis eaten in total?

Year 4 Maths
LO: To add fractions

Kate has eaten $\frac{4}{5}$ of her pizza.

Luis has eaten $\frac{3}{5}$ of his pizza.



Kate and Luis have eaten $\frac{7}{5}$ in total.

I used a fraction strip to represent the pizzas. Then I rearranged the sections on a number line to help me.

$\frac{4}{5} + \frac{3}{5} = \frac{7}{5}$

Year 4 Maths
LO: To add fractions

Remember:

When adding fractions the denominator ALWAYS stays the same, we just add the numerators together.

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

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

Year 4 Maths
LO: To add fractions

Success Criteria

- Look at the numerator
- Look at the denominator
- Which numbers do I add together?
- Which numbers stay the same?
- Can you write the new fraction?

Year 4 Maths
LO: To add fractions

Fluency

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

2) $\frac{2}{9} + \frac{6}{9} =$

3) $\frac{4}{10} + \frac{2}{10} =$

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

5) $\frac{1}{7} + \frac{2}{7} + \frac{3}{7} =$

6) $\frac{4}{10} + \frac{1}{10} + \frac{2}{10} =$

Year 4 Maths
LO: To add fractions

Reasoning

The answer is $\frac{4}{9}$; what is the question?

- True or False

$$\frac{5}{12} + \frac{3}{12} = \frac{8}{12}$$

$$\frac{5}{12} + \frac{3}{12} = \frac{8}{24}$$

$$\frac{5}{12} + \frac{3}{12} = \frac{4}{6}$$

Explain your reasoning.

Year 4 Maths
LO: To add fractions

Problem Solving

- Find three ways to complete each calculation.

$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{8}{9}$$

Year 4 Maths
LO: To add fractions

Fluency - Answers

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

2) $\frac{2}{9} + \frac{6}{9} = \frac{8}{9}$

3) $\frac{4}{10} + \frac{2}{10} = \frac{6}{10}$

4) $\frac{1}{8} + \frac{4}{8} = \frac{5}{8}$

5) $\frac{1}{7} + \frac{2}{7} + \frac{3}{7} = \frac{6}{7}$

6) $\frac{4}{10} + \frac{1}{10} + \frac{2}{10} = \frac{7}{10}$

Year 4 Maths
LO: To add fractions

Reasoning

The answer is $\frac{4}{9}$; what is the question?

$\frac{1}{9} + \frac{3}{9}$ $\frac{3}{9} + \frac{1}{9}$ $\frac{2}{9} + \frac{2}{9}$

$\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9}$ $\frac{1}{9} + \frac{2}{9} + \frac{1}{9}$

Year 4 Maths
LO: To add fractions

Reasoning

- True or False

$$\frac{5}{12} + \frac{3}{12} = \frac{8}{12}$$

$$\frac{5}{12} + \frac{3}{12} = \frac{8}{24}$$

$$\frac{5}{12} + \frac{3}{12} = \frac{4}{6}$$

Explain your reasoning.

True, because the denominators stayed the same and the numerators were added to make 8.

False, because the denominators were added.

False, because the denominators have been subtracted.

Year 4 Maths
LO: To add fractions

Problem Solving

- Find three ways to complete each calculation.

$$\frac{4}{9} + \frac{4}{9} = \frac{8}{9}$$

$\frac{3}{9} + \frac{5}{9}$

$\frac{2}{9} + \frac{6}{9}$

$\frac{1}{9} + \frac{7}{9}$