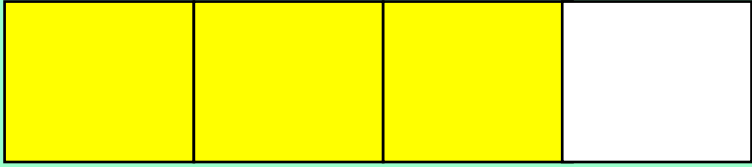


29.4.2020

Fractions

I can add and subtract fractions with the same denominator.

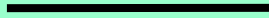


$$\frac{3}{4}$$

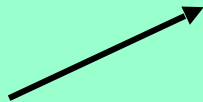
Numerator



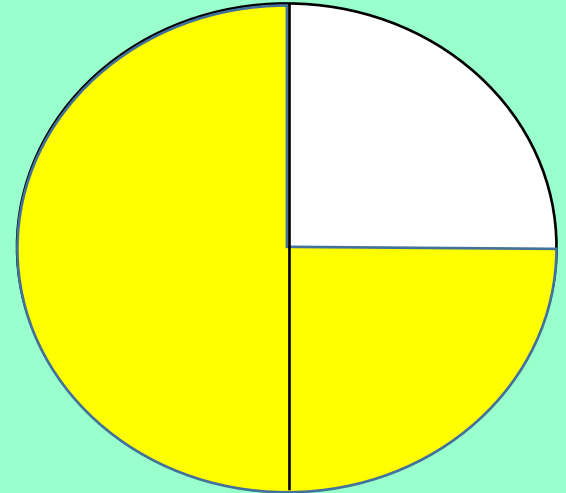
3



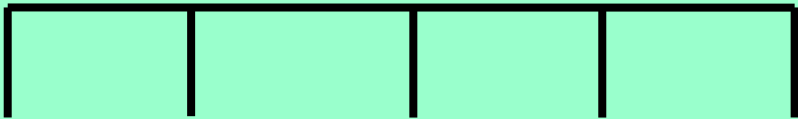
4



Denominator



$$\frac{3}{4}$$



$$\frac{3}{4}$$

$$\frac{1}{5} + \frac{3}{5} = \frac{1+3}{5} = \frac{4}{5}$$

One fifth

Three fifths

- Identify the numerator and denominator
- Calculate with the numerators
- Keep the denominator the same

$$\frac{1}{5} + \frac{3}{5} = \frac{1+3}{5} = \frac{4}{5}$$

One fifth

Three fifths

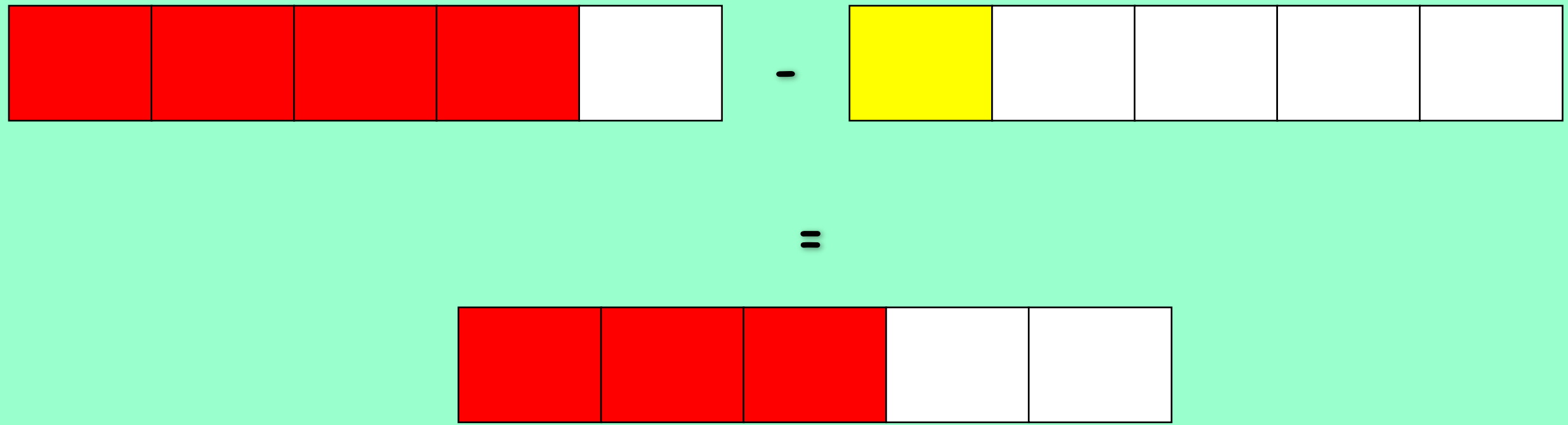


$$\frac{4}{5} - \frac{1}{5} = \frac{4 - 1}{5} = \frac{3}{5}$$

Four fifths

One fifth

- Identify the numerator and denominator
- Calculate with the numerators
- Keep the denominator the same

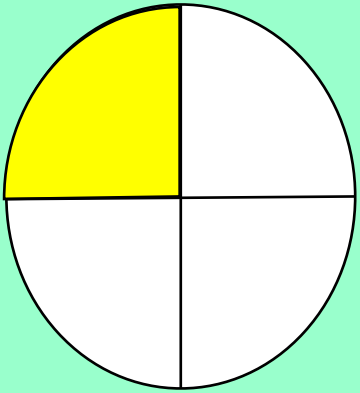


Recap

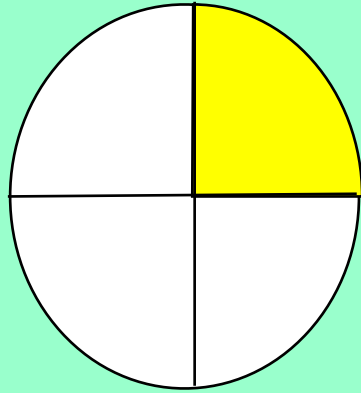
How do you add or subtract fractions when the denominator is the same?

Practice 1

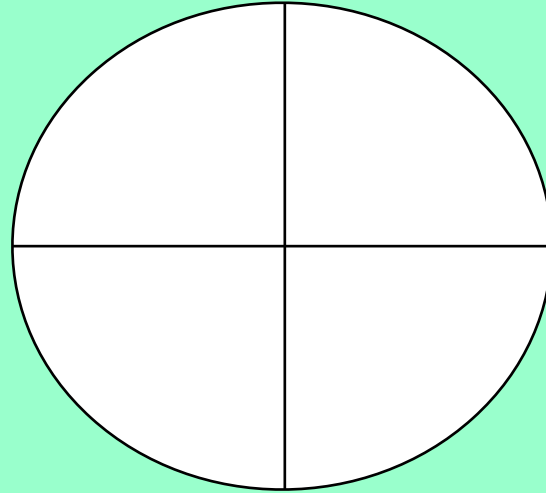
$$\frac{1}{4} + \frac{1}{4} =$$



+



=



- Identify the numerator and denominator
- Calculate with the numerators
- Keep the denominator the same

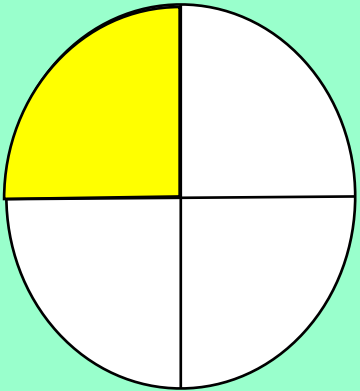
Answer

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

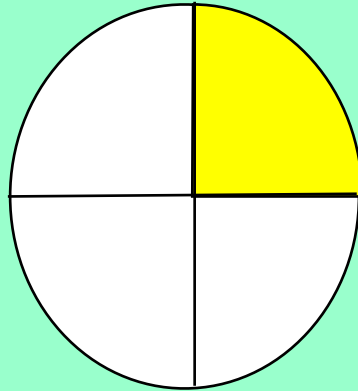
One quarter

One quarter

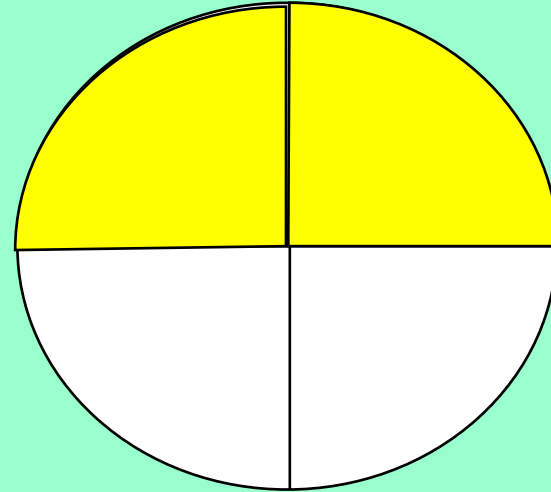
Two quarters



+



=



- Identify the numerator and denominator
- Calculate with the numerators
- Keep the denominator the same

Practice 2

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

--	--	--	--	--

- Identify the numerator and denominator
- Calculate with the numerators
- Keep the denominator the same

Answer

$$\frac{3}{5}$$

Three fifths

+

$$\frac{2}{5}$$

Two fifths

=

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

=

$$\frac{5}{5}$$

Five fifths

=

1

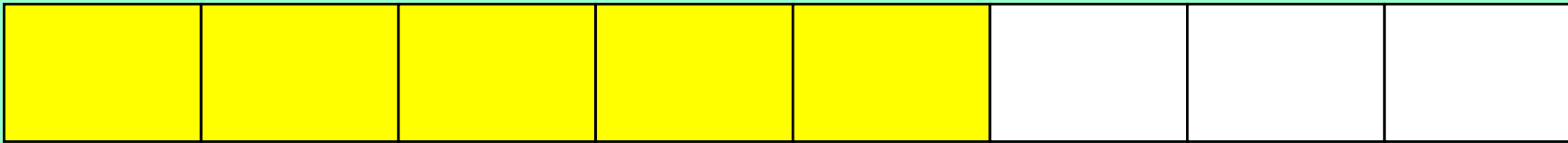
One whole

- Identify the numerator and denominator
- Calculate with the numerators
- Keep the denominator the same

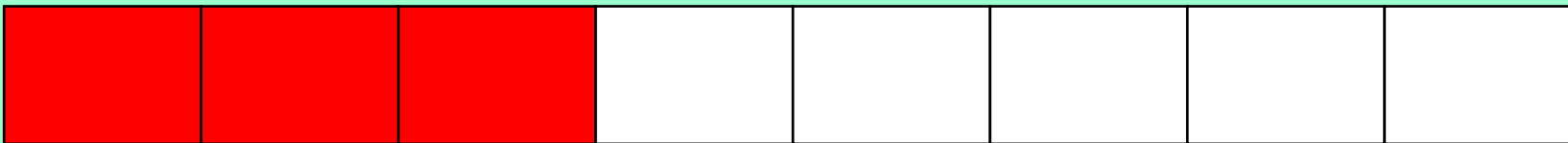


Practice 3

One mouse travels $\frac{5}{8}$ of a metre.



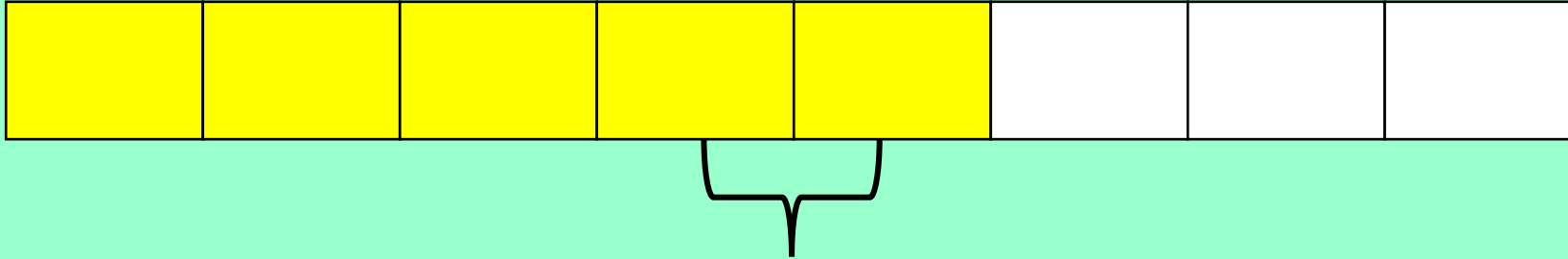
The other mouse travels $\frac{3}{8}$ of a metre.



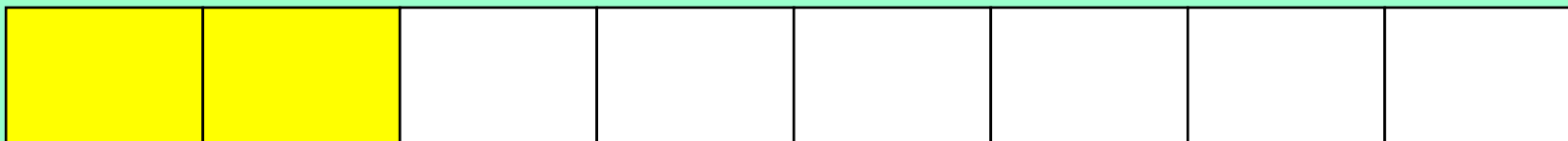
How much further does the first mouse travel?

Answer

How much further does the first mouse travel?



$$\frac{5}{8} - \frac{3}{8} = \frac{5 - 3}{8} = \frac{2}{8}$$



Answer

$$\frac{2}{11} + \frac{4}{11} + \frac{3}{11} = 2 + \frac{4}{11} + 3 = \frac{9}{11}$$

Two one
elevenths

Four one
elevenths

Three one
elevenths

Nine one
elevenths



Practice 5

$$\frac{1}{7} + \frac{\square}{\square} = \frac{5}{7}$$



$$\frac{4}{7} + \frac{\square}{\square} = 1$$



Answer

$$\frac{1}{7} + \frac{\boxed{4}}{7} = \frac{5}{7}$$



$$\frac{4}{7} + \frac{\boxed{3}}{7} = 1$$



Tasks to record in
your books.

Look the *attached sheet*
and go through all four
tasks:

Practice,
Fluency,
Reasoning and
Problem solving

Practise

- 1) $\frac{8}{11} + \frac{5}{11}$
- 2) $\frac{5}{9} + \frac{2}{9}$
- 3) $\frac{4}{5} - \frac{1}{5}$
- 4) $\frac{3}{10} + \frac{4}{10}$
- 5) $\frac{7}{12} - \frac{3}{12}$
- 6) $\frac{3}{8} + \frac{1}{8}$

Fluency

Fill in the missing fractions

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

Draw diagrams to represent the following problems:

- 3) $\frac{6}{10} + \frac{3}{10}$
- 4) $\frac{4}{5} + \frac{3}{5}$

Reasoning

- 1) The answer to a question is $\frac{4}{9}$; what is the question?
- 2) 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.

Problem solving

- 1) Joanne chooses two fractions and subtracts the smaller one from the bigger one. Her answer was $\frac{1}{6}$. What fractions could Caroline have chosen? How many ways can you find to do it?
- 2) Find three ways to complete each calculation:
 $\frac{?}{?} + \frac{?}{?} = \frac{8}{9}$
 $\frac{?}{?} - \frac{?}{?} = \frac{8}{9}$