

LO: To add fractions with total greater than 1

LO: To add to a mixed number

LO: To add two mixed numbers

LO: To subtract fractions

LO: To subtract fractions from a mixed number

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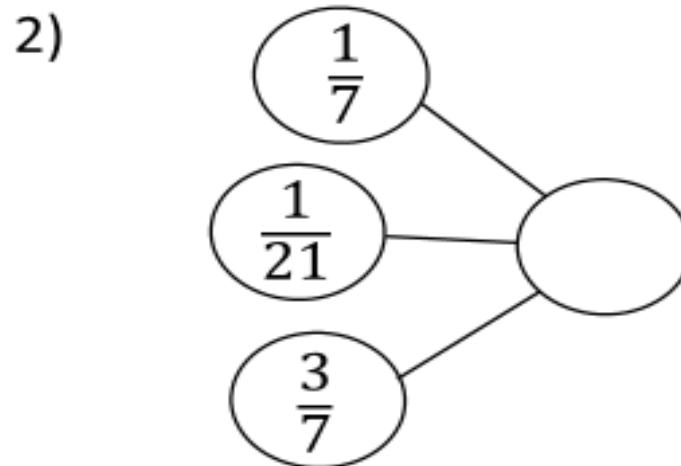
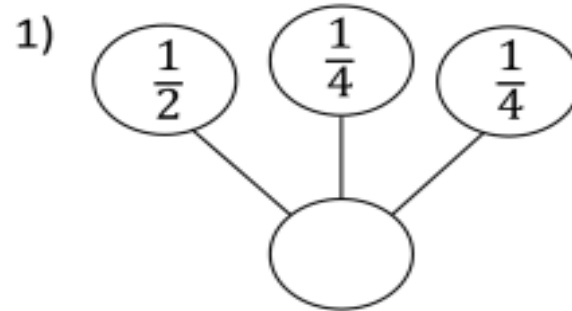
LO: To subtract fractions

LO: To subtract fractions from a mixed number

Mon 8.1.24

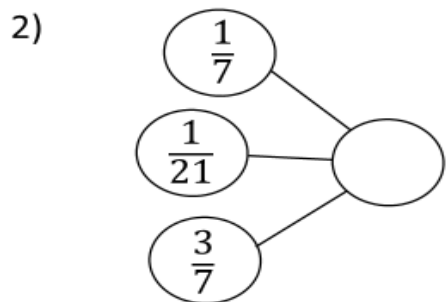
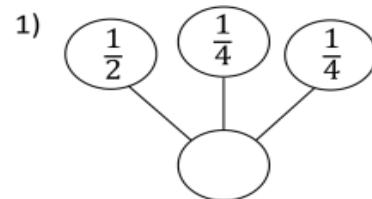
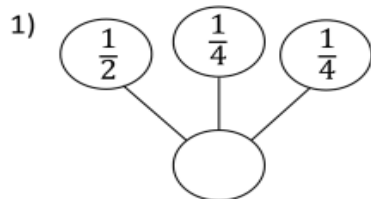
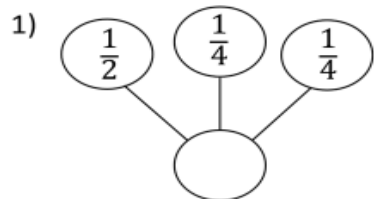
LO: To add fractions with total greater than 1

Stick in
books –
add the
parts-
complete



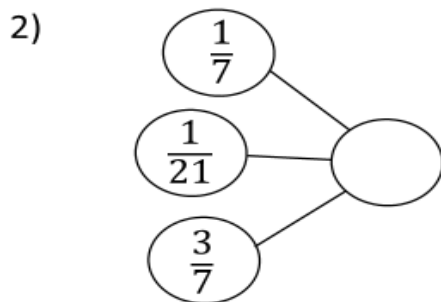
3) $\frac{1}{5} = \frac{\square}{15} = \frac{9}{\square}$

Recap



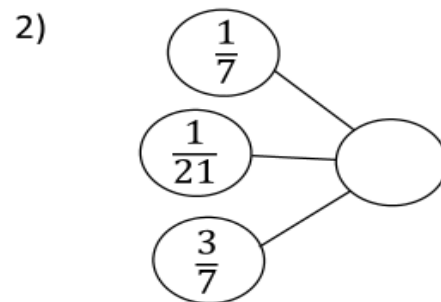
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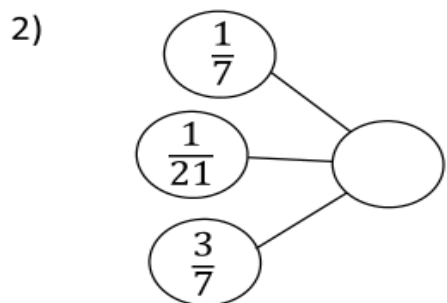
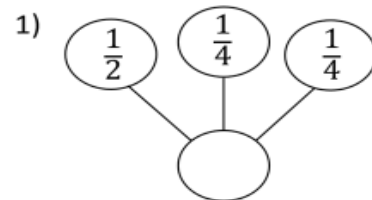
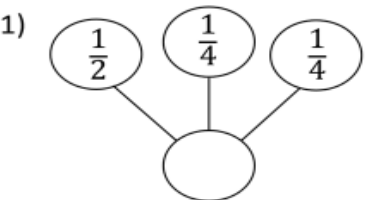
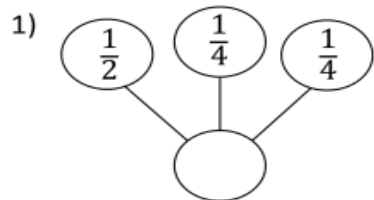
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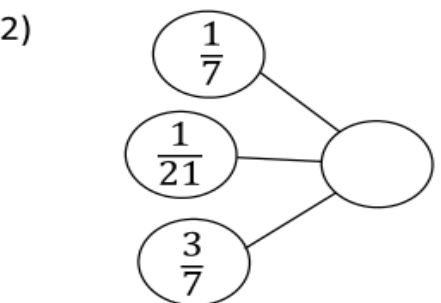
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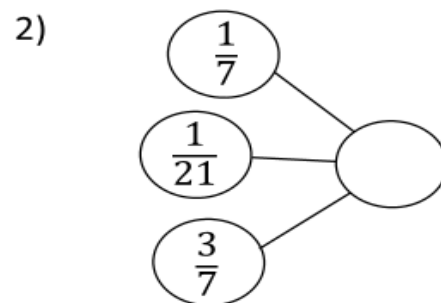
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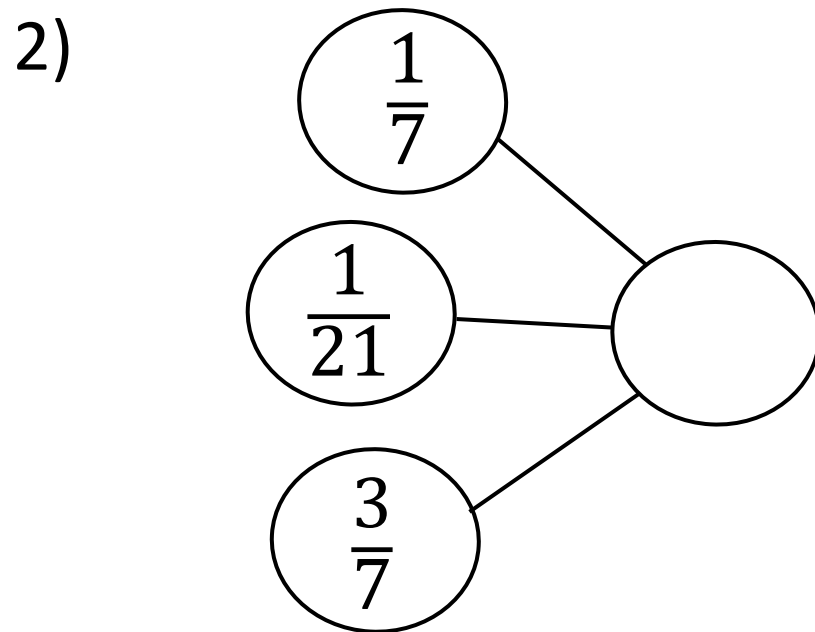
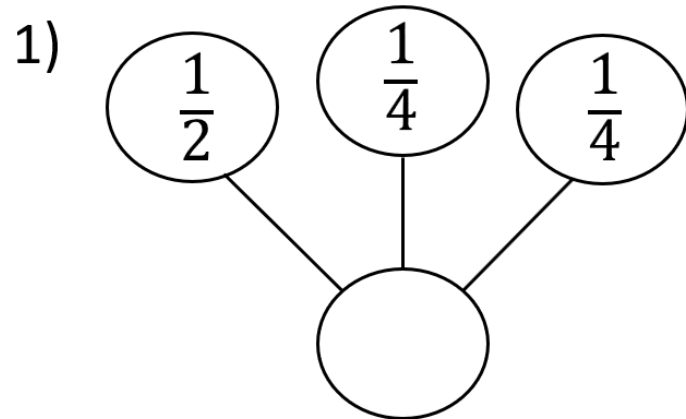
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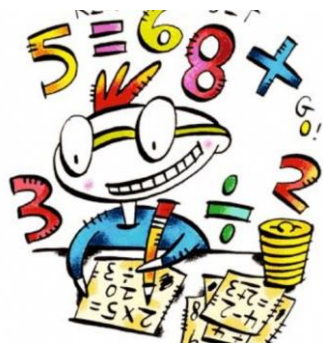


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$$\frac{1}{5} = \frac{\square}{15} = \frac{9}{\square}$$

Recap

Maths Three Repeating Golden Threads



Mastery

Pupils acquire a deep, long-term, secure adaptable understanding

Fluency

Quick and. efficient recall of facts and procedures

Application

The use of maths everyday in the real world, outside the classroom.





Term Autumn 2	Week beginning 4.12.23		
<u>Block Fractions A</u>			
<u>Key vocabulary</u> numerator convert improper denominator equivalent mixed number order compare			
	WT	EX	S
To compare and order fractions greater than 1			
To add and subtract fractions with same denominator			
To add fractions within 1			
To add fractions with total greater than 1			
Add to a mixed number			
Add two mixed numbers			
Subtract fractions			
Subtract from a mixed number			
Subtract two mixed numbers			
<u>Stem sentences</u>			
• If the number of wholes is different, then the number with wholes is greater. • If the number of wholes is equal, then I need to compare the • When adding/subtracting fractions with the same denominators, I just add/subtract the • Fractions must have the same before you can add them. • The denominator has been multiplied by , so the numerator needs to be multiplied by for the fractions to be equivalent			

Crucial Vocab...

mixed fraction
addition
total

mixed fraction
addition
total

mixed fraction
addition
total

mixed fraction
addition
total

mixed fraction
addition
total

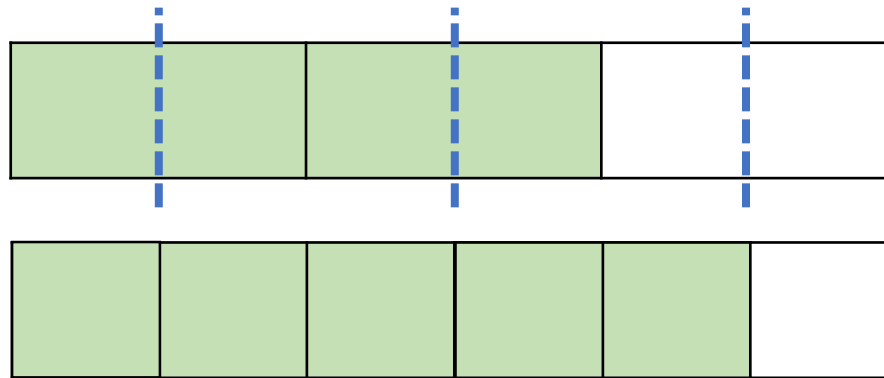
mixed fraction
addition
total

mixed fraction
addition
total

mixed fraction
addition
total

mixed fraction
addition
total

$$\frac{2}{3} + \frac{5}{6} =$$



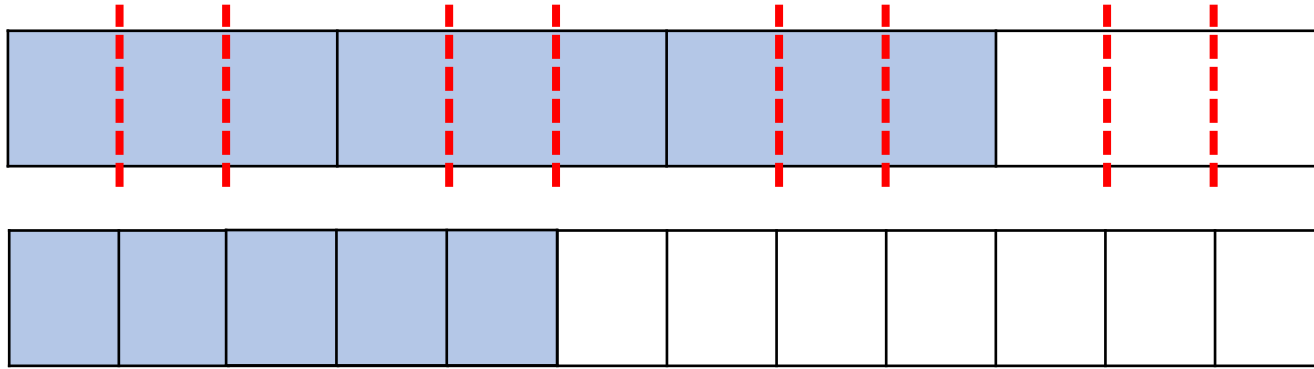
$$\frac{4}{6} + \frac{5}{6} = \frac{9}{6} = 1\frac{3}{6}$$

I am going to make all of the denominators 6

Have a think



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



$$\frac{9}{12} + \frac{5}{12} = \frac{14}{12} = 1\frac{2}{12}$$

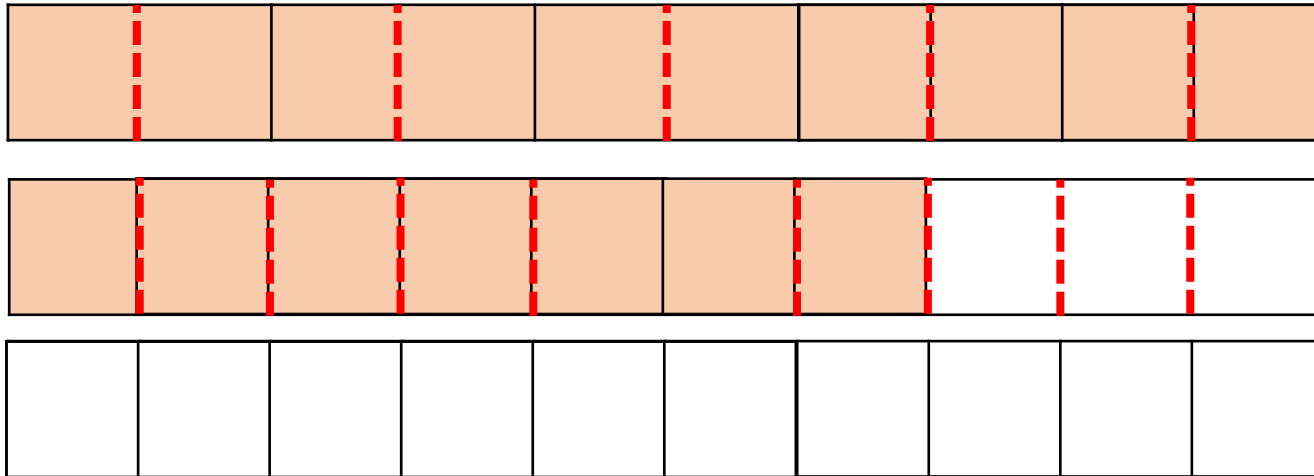
I am going to make all of the denominators 12



Have a think



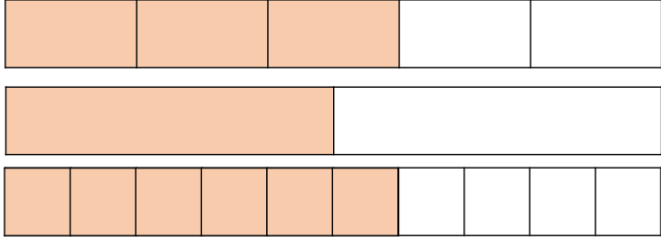
$$\frac{3}{5} + \frac{1}{2} + \frac{6}{10} =$$



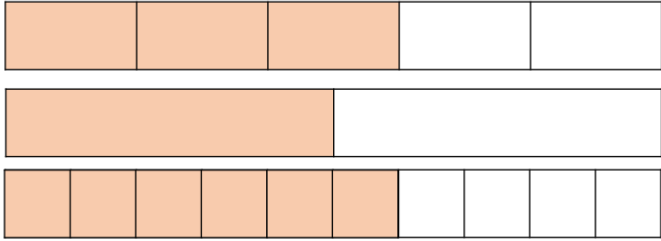
$$\frac{6}{10} + \frac{5}{10} + \frac{6}{10} = \frac{17}{10} = 1 \frac{7}{10}$$

I am going to make all of the denominators 10

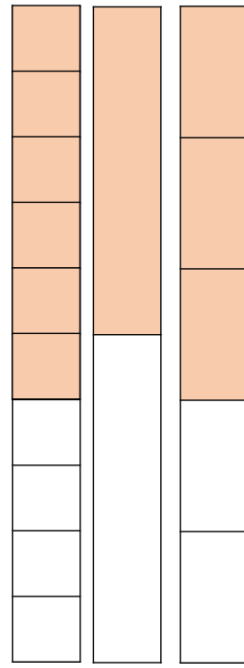
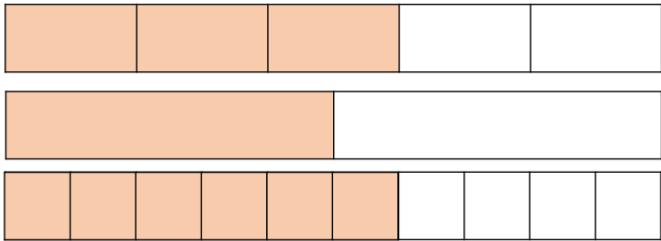
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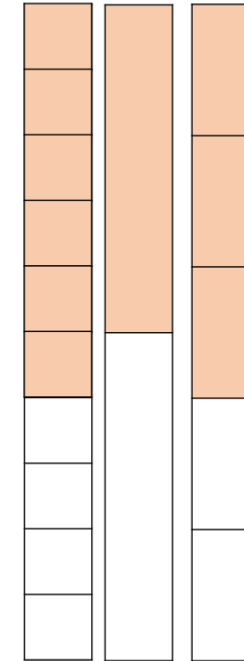
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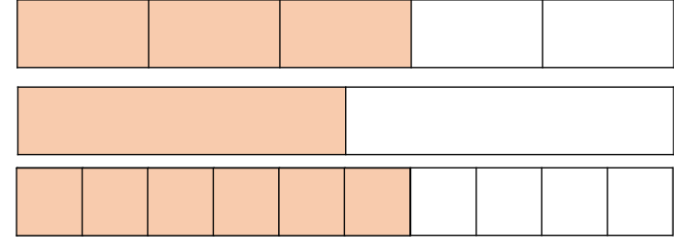


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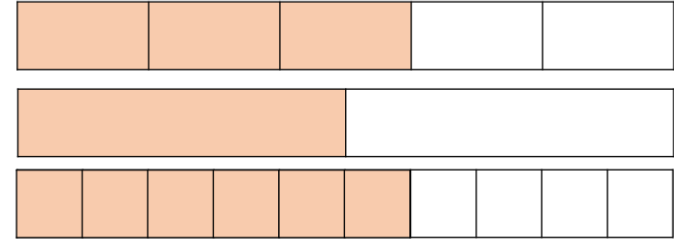


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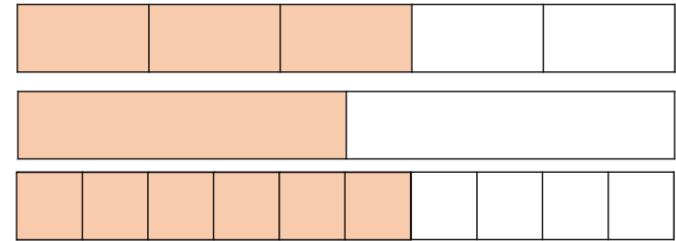
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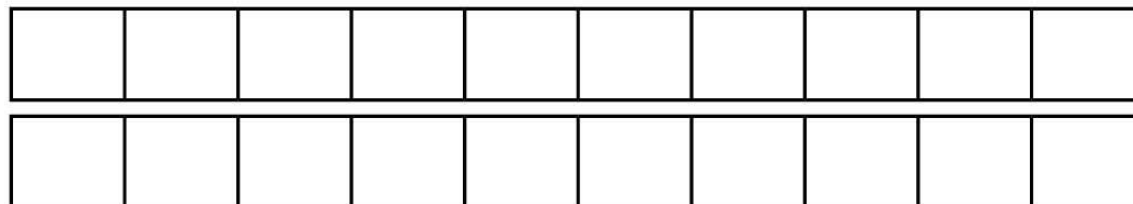
Mon

Add fractions with total greater than 1

1 Complete the calculations.

Use the bar models to help you.

a)



$$\frac{1}{2} + \frac{7}{10} = \boxed{} = \boxed{}$$



1

b)

$$\frac{1}{2} + \frac{3}{10} + \frac{1}{5} = \boxed{} = \boxed{}$$

c)

$$\frac{2}{3} + \frac{5}{6} + \frac{1}{12} = \boxed{} = \boxed{}$$



1

Complete the calculations.

Use the bar models to help you.

a)



$$\frac{1}{2} + \frac{7}{10} = \boxed{} - \boxed{}$$

b)



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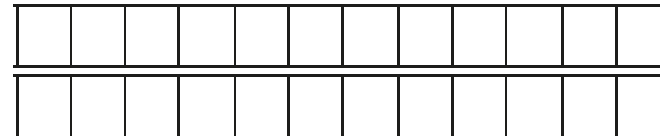
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b)



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c)



$$\frac{2}{3} + \frac{5}{6} + \frac{1}{12} = \boxed{} - \boxed{}$$

2 Complete the additions.

a) $\frac{4}{5} + \frac{7}{20} = \square = \square$

b) $\frac{5}{4} + \frac{7}{20} = \square = \square$

c) $\frac{3}{4} + \frac{5}{12} = \square = \square$

Copy into books



Annie cycles $\frac{11}{20}$ km before lunch.

She cycles another $\frac{4}{5}$ km after lunch.

Have a think



How far has Annie cycled in total?

$$\frac{11}{20} + \frac{4}{5} =$$
$$\frac{11}{20} + \frac{16}{20} = \frac{27}{20} = 1\frac{7}{20} \text{ km}$$

The diagram shows the addition of $\frac{11}{20}$ and $\frac{4}{5}$. A blue curved arrow points from the denominator 5 of the second fraction to the denominator 20 of the first fraction, with a blue $\times 4$ next to it, indicating the multiplication of the second fraction by 4 to get a common denominator of 20.

I am going to make all of the denominators 20

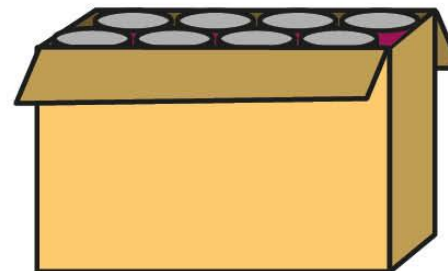
Discuss together



4

Dexter has some tins of food.

There are four types of food: beans, sweetcorn, soup and tomatoes.



- The total mass of all the tins is 2 kg.
- The tins of beans have a mass of $\frac{2}{3}$ kg.
- The tins of sweetcorn have a mass of $\frac{5}{12}$ kg.
- The tins of soup have a mass of $\frac{1}{4}$ kg.

a) Work out the total mass of the tins of beans, sweetcorn and soup.

 kg

b) What is the mass of the tins of tomatoes?

 kg

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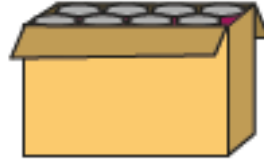
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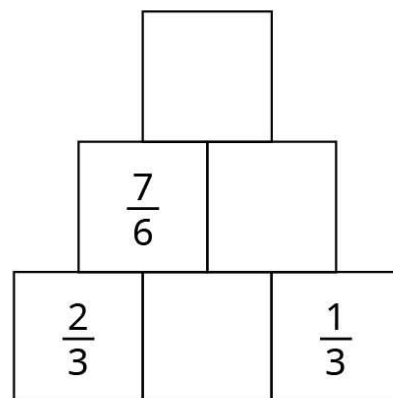
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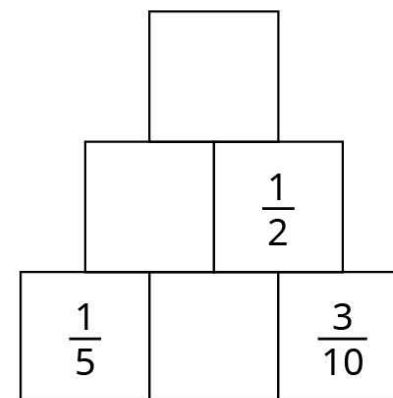


5 Complete the addition pyramids.

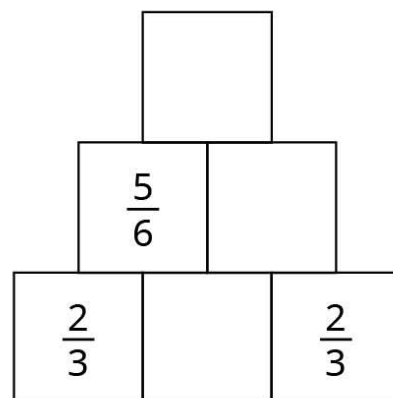
a)



c)

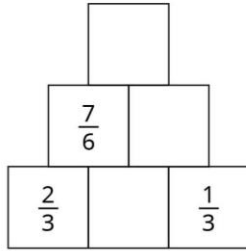


b)

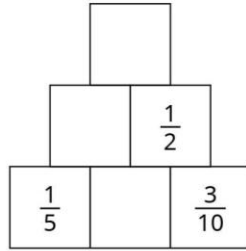


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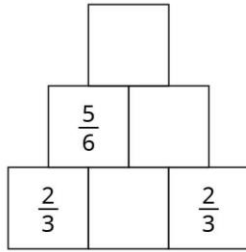
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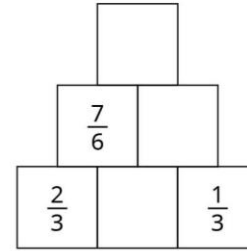
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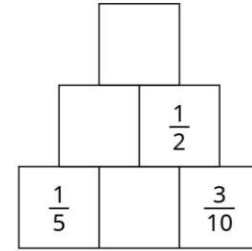
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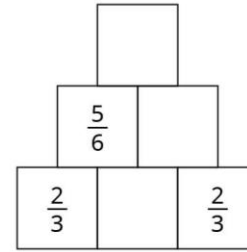
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c)

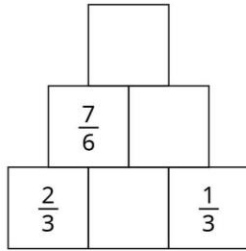


b)

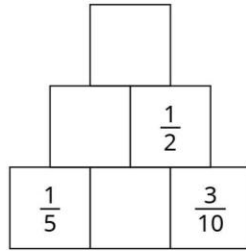


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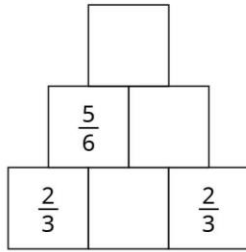
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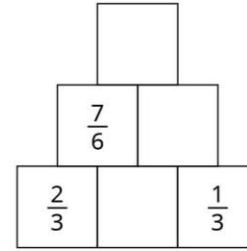


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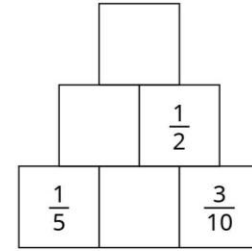


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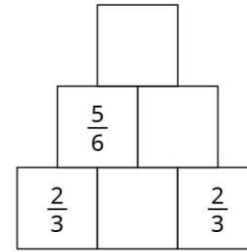
a)



c)



b)



Maths Meeting-Mon

Key skills test

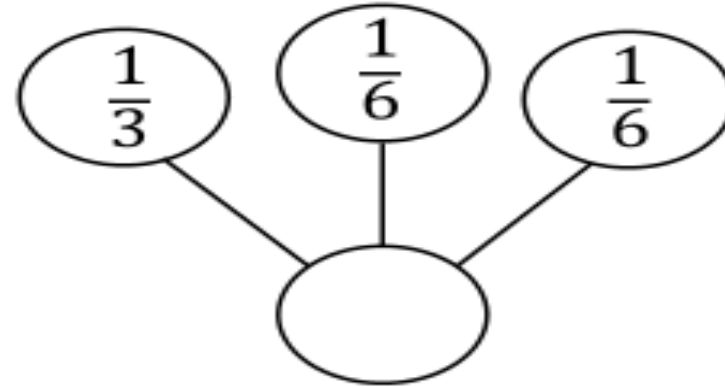


9.1.24

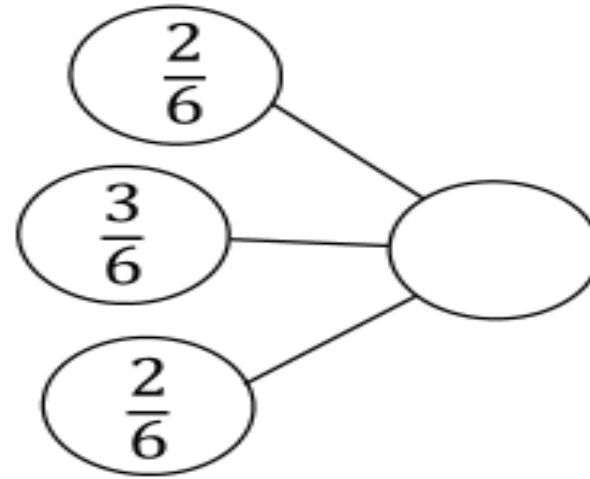
LO: To add to a mixed number

Add the
fractions-
whiteboards

1)

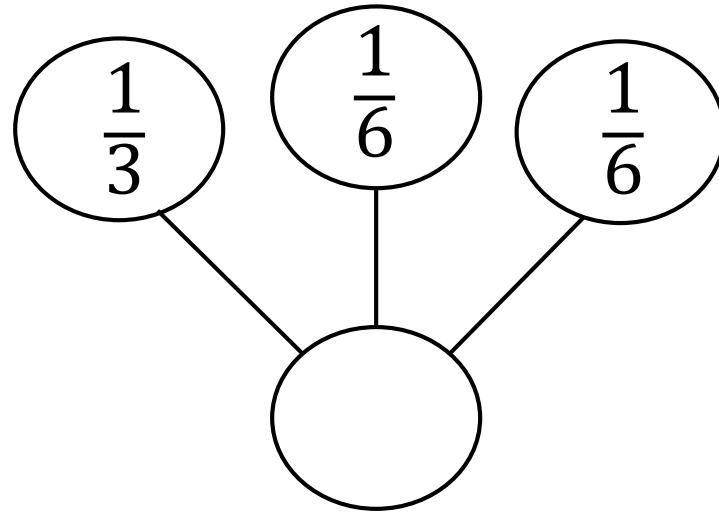


2)

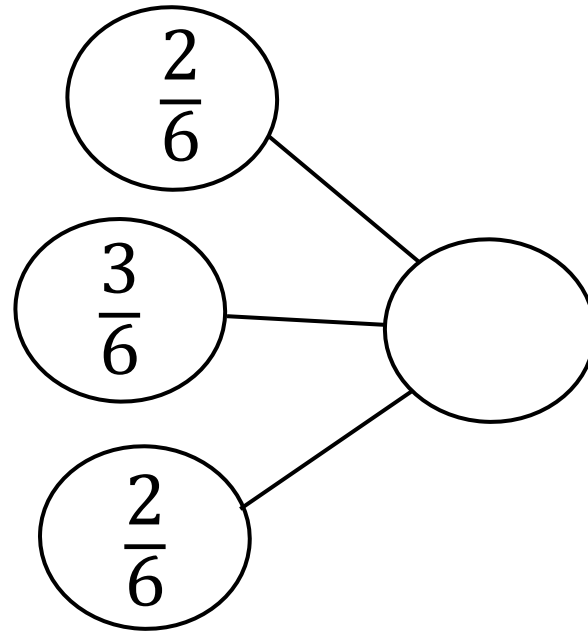


Whiteboards

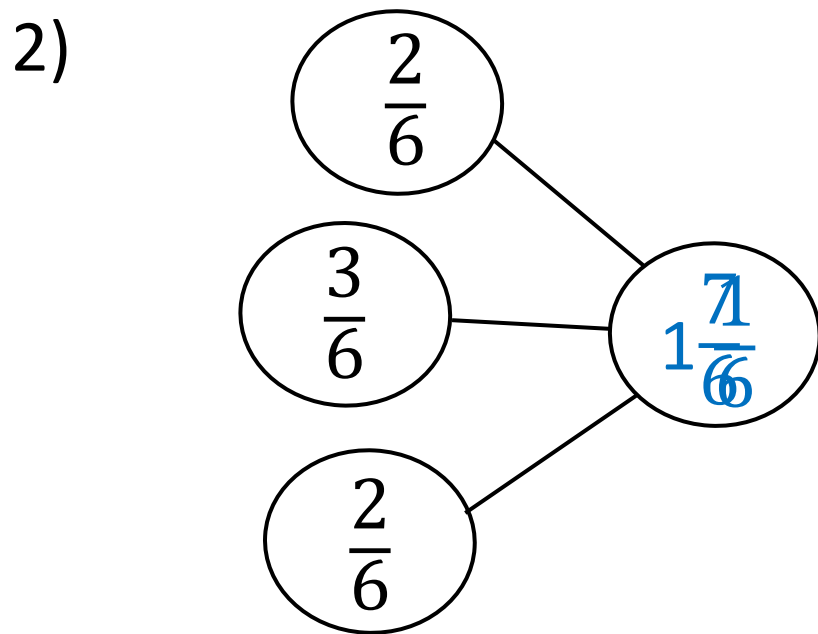
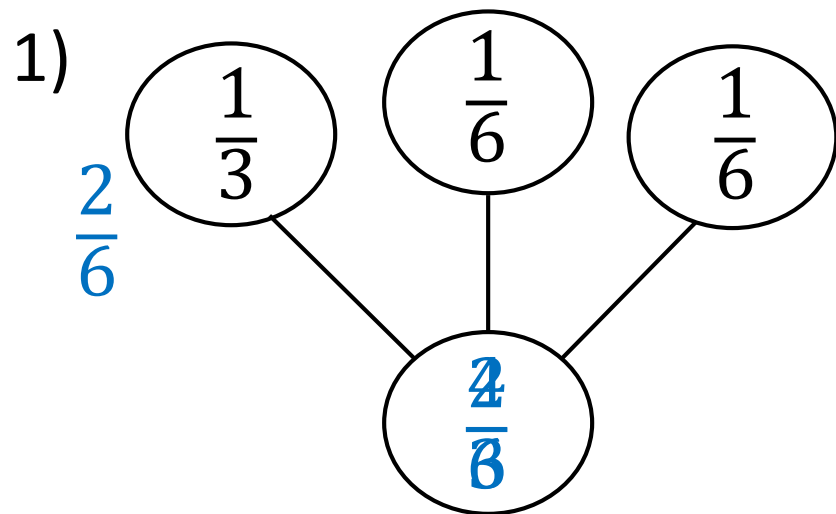
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2)



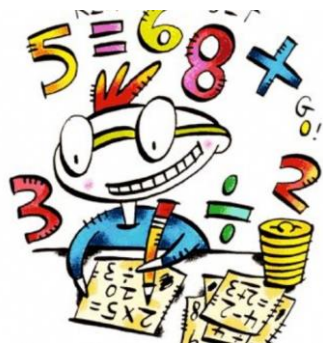
3) $\frac{3}{7} = \frac{\square}{21} = \frac{6}{\square}$



3)

$$\frac{3}{7} = \frac{\boxed{9}}{21} = \frac{6}{\boxed{14}}$$

Maths Three Repeating Golden Threads



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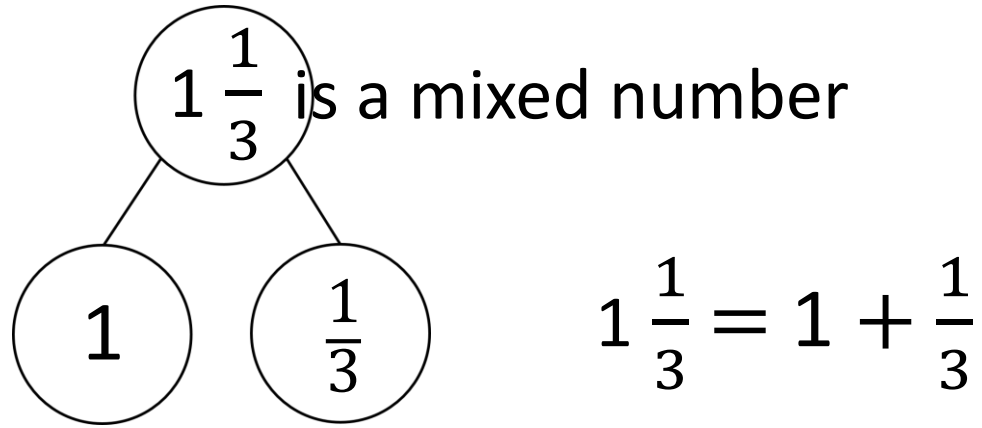
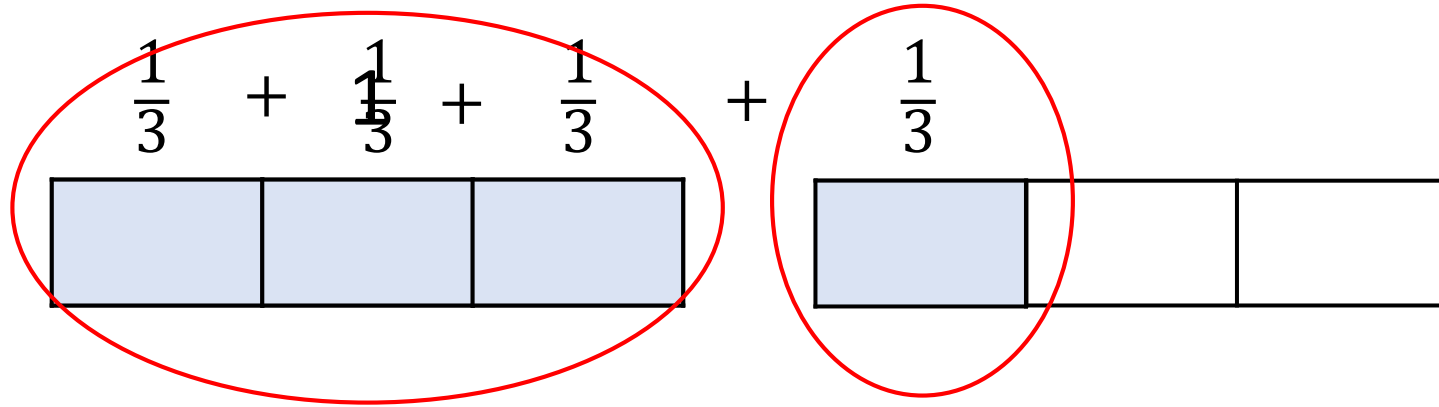




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Subtract two mixed numbers			
<u>Stem sentences</u>			
• If the number of wholes is different, then the number with wholes is greater. • If the number of wholes is equal, then I need to compare the • When adding/subtracting fractions with the same denominators, I just add/subtract the • Fractions must have the same before you can add them. • The denominator has been multiplied by , so the numerator needs to be multiplied by for the fractions to be equivalent			

Crucial Vocab...

*mixed number
addition*



A mixed number can be partitioned into a whole part and a fraction part.

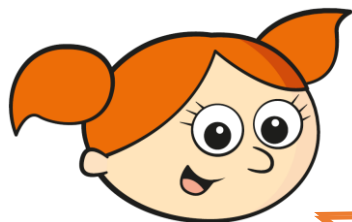
$$2\frac{3}{5} + 5 = 7\frac{3}{5}$$

Have a think



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

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



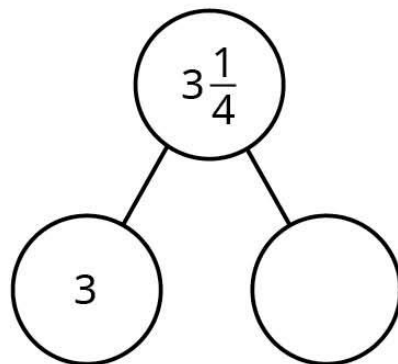
I will add the whole numbers
together first.
Then I will add the fraction
back on again.



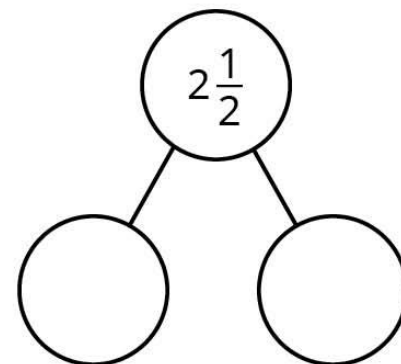
Add to a mixed number

1 Complete the part-whole models.

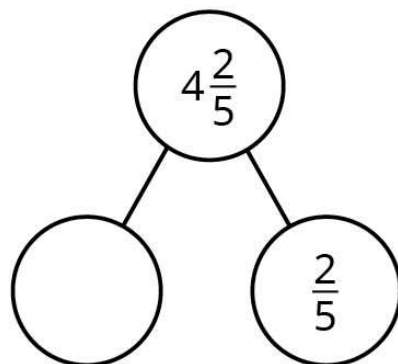
a)



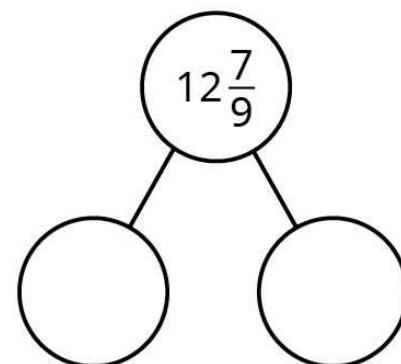
c)



b)



d)



Mon



- 2 Filip is using bar models to add $2\frac{1}{3}$ and 3



Complete Filip's workings.

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

Mon

S grp only



- 2 Filip is using bar models to add $2\frac{1}{3}$ and 3



Complete Filip's workings.

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

Mon

S grp only

Copy into books and complete

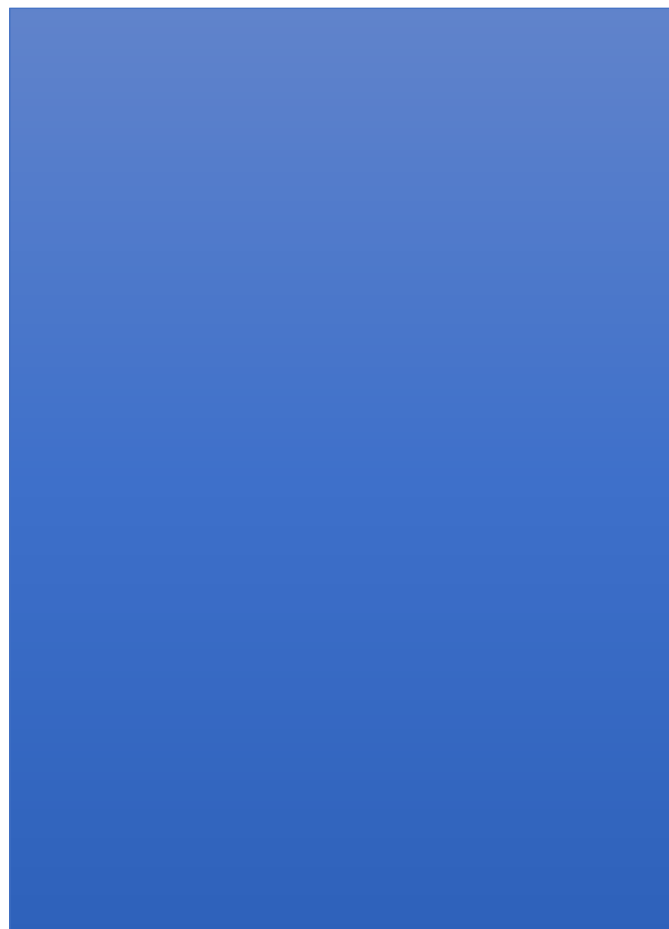
3 Complete the additions.

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

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

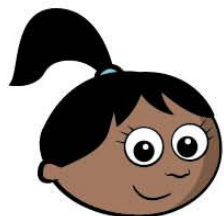
c) $7 + 2\frac{1}{4} =$

d) $5 + 5\frac{4}{9} =$



5

Sam and Tommy are finding the sum of $3\frac{3}{10}$ and $\frac{2}{10}$



Sam

$$3\frac{3}{10} + \frac{2}{10} = 3\frac{5}{10}$$

$$3\frac{3}{10} + \frac{2}{10} = 3\frac{1}{2}$$



Tommy

Who do you agree with?

Explain your reasoning.



- 5 Sam and Tommy are finding the sum of $3\frac{3}{10}$ and $\frac{2}{10}$



Sam

$$3\frac{3}{10} + \frac{2}{10} = 3\frac{5}{10}$$



Tommy

$$3\frac{3}{10} + \frac{2}{10} = 3\frac{1}{2}$$

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$$3\frac{3}{10} + \frac{2}{10} = 3\frac{1}{2}$$

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Tommy

Who do you agree with?

Explain your reasoning.

Mon

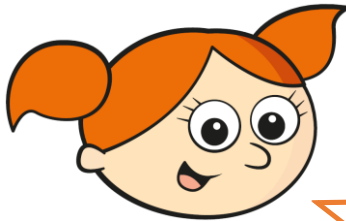
$$4\frac{1}{7} + \frac{4}{7} = 4\frac{5}{7}$$

Have a think



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

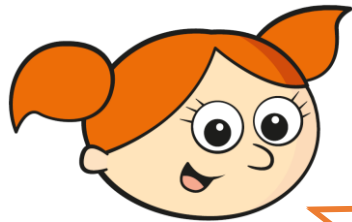
$$4 + \frac{5}{7} = 4\frac{5}{7}$$



Then I will add the fraction back together first.

Model

$$\begin{array}{c} 2\frac{1}{3} + \frac{5}{9} = 2\frac{8}{9} \\ \swarrow \quad \downarrow \quad \searrow \\ 2 \quad + \quad \frac{1}{3} \quad + \quad \frac{5}{9} \\ \quad \quad \downarrow \quad \quad \downarrow \\ 2 \quad + \quad \frac{3}{9} \quad + \quad \frac{5}{9} = 2\frac{8}{9} \\ \quad \quad \quad \searrow \quad \swarrow \\ \quad \quad \quad \frac{8}{9} \end{array}$$



I will be going to make fractions
denominators 9

Discuss and do together in books

Have a think



$$\begin{array}{c} 5\frac{3}{10} + \frac{1}{5} = 5\frac{1}{2} \\ \swarrow \quad \searrow \quad \swarrow \\ 5 \quad + \quad \frac{3}{10} \quad + \quad \frac{1}{5} \\ \quad \quad \quad \downarrow \quad \quad \downarrow \\ 5 \quad + \quad \frac{3}{10} \quad + \quad \frac{2}{10} = 5\frac{5}{10} = 5\frac{1}{2} \\ \quad \quad \quad \swarrow \quad \searrow \\ \quad \quad \quad \frac{5}{10} \end{array}$$

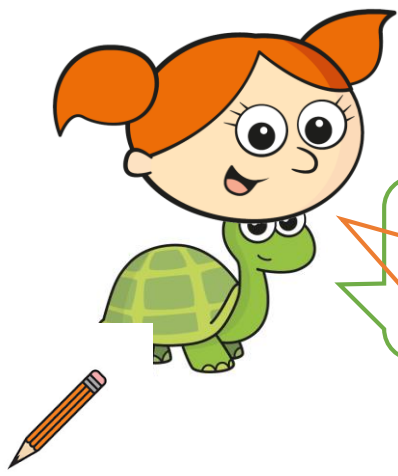


$$1\frac{1}{3} + \frac{5}{6} = 2\frac{1}{6}$$

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

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

$$\frac{7}{6}$$



The fractional part of the answer is an improper fraction, so needs converting to a mixed number.

6

Complete the additions.

Use equivalent fractions in your answer, if possible.

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

c) $\frac{2}{12} + 3\frac{7}{12} =$

b) $5\frac{3}{8} + \frac{3}{8} =$

d) $\frac{2}{9} + 4\frac{7}{9} =$



- 8 Tiny is finding the sum of $\frac{2}{9}$ and $3\frac{1}{3}$



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

- a) What mistake has Tiny made?

- b) What is the correct answer?

8

Tiny is finding the sum of $\frac{2}{9}$ and $3\frac{1}{3}$



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

a) What mistake has Tiny made?

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Tiny is finding the sum of $\frac{2}{9}$ and $3\frac{1}{3}$



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

a) What mistake has Tiny made?

Mon

Maths Meeting- Tues



Revise adding fractions...



How to Add Fractions

Same Denominators

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

↓

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

Different Denominators

$$7 \times \frac{1}{2} + \frac{3 \times 2}{7 \times 2}$$

↓

$$\frac{7+6}{14} = \frac{13}{14}$$

Adding fractions chain! How many can we solve?



10.1.24

LO: To add two mixed numbers

Stick in
books and
match

Match each number to a description.

Each number can be matched with more than one description.

$$\boxed{\frac{1}{3}}$$

$$\boxed{\frac{9}{2}}$$

$$\boxed{2\frac{8}{3}}$$

$$\boxed{\frac{4}{7}}$$

$$\boxed{7\frac{2}{5}}$$

Non-unit fraction

Unit fraction

Improper fraction

Proper fraction

Less than 1

Mixed number

Greater than 1

Incorrectly written

Match each number to a description.
Each number can be matched with more than one description.

$$\frac{1}{3}$$

$$\frac{9}{2}$$

$$2\frac{8}{3}$$

$$\frac{4}{7}$$

$$7\frac{2}{5}$$

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Non-unit fraction

Unit fraction

Improper fraction

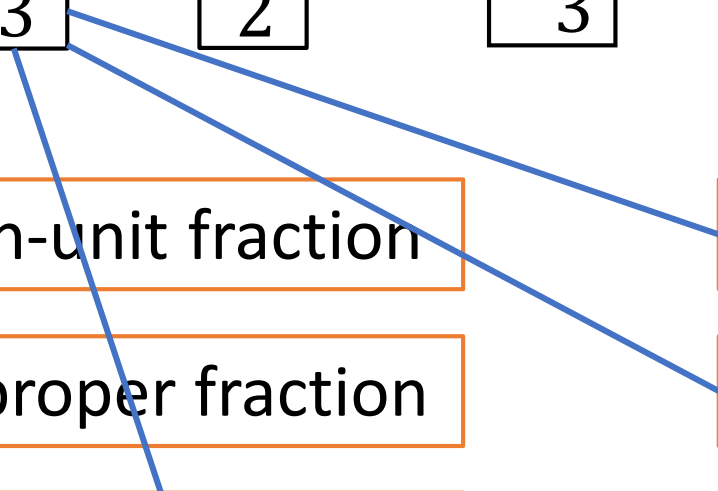
Proper fraction

Less than 1

Mixed number

Greater than 1

Incorrectly written



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Each number can be matched with more than one description.

$$\frac{1}{3}$$

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$$7\frac{2}{5}$$

Non-unit fraction

Improper fraction

Less than 1

Greater than 1

Unit fraction

Proper fraction

Mixed number

Incorrectly written



Match each number to a description.

Each number can be matched with more than one description.

$$\frac{1}{3}$$

$$\frac{9}{2}$$

$$4\frac{8}{3}$$

$$\frac{4}{7}$$

$$7\frac{2}{5}$$

Non-unit fraction

Improper fraction

Less than 1

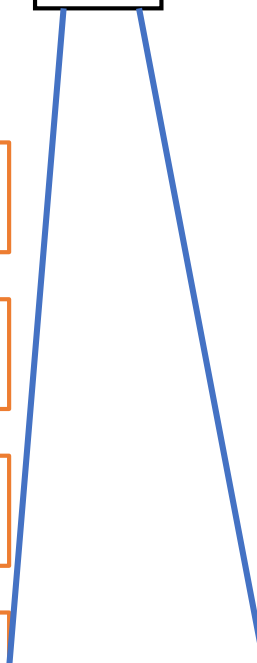
Greater than 1

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Non-unit fraction

Improper fraction

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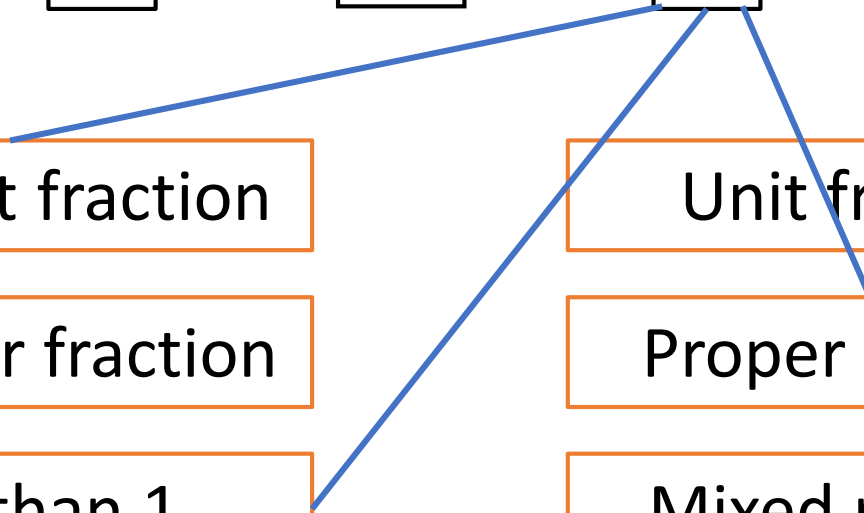
Greater than 1

Unit fraction

Proper fraction

Mixed number

Incorrectly written



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$$\frac{4}{7}$$

$$7\frac{2}{5}$$

Non-unit fraction

Unit fraction

Improper fraction

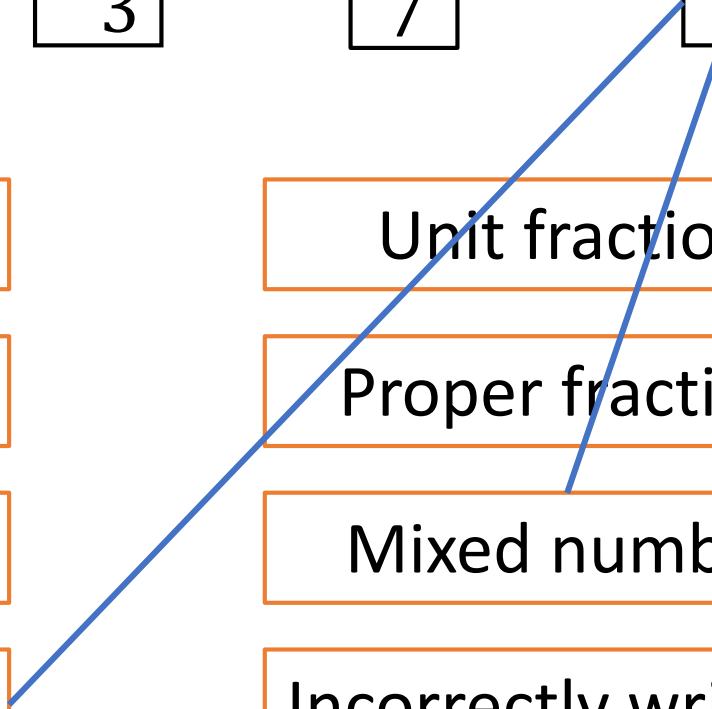
Proper fraction

Less than 1

Mixed number

Greater than 1

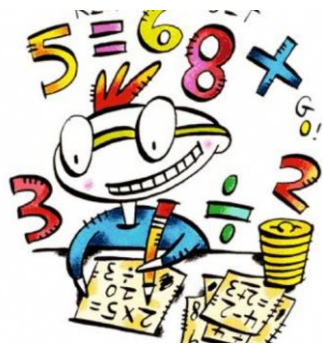
Incorrectly written





Term Autumn 2	Week beginning 4.12.23		
<u>Block Fractions A</u>			
<u>Key vocabulary</u> numerator convert improper denominator equivalent mixed number order compare			
	WT	EX	S
To compare and order fractions greater than 1			
To add and subtract fractions with same denominator			
To add fractions within 1			
To add fractions with total greater than 1			
Add to a mixed number			
Add two mixed numbers			
Subtract fractions			
Subtract from a mixed number			
Subtract two mixed numbers			
<u>Stem sentences</u>			
• If the number of wholes is different, then the number with wholes is greater. • If the number of wholes is equal, then I need to compare the • When adding/subtracting fractions with the same denominators, I just add/subtract the • Fractions must have the same before you can add them. • The denominator has been multiplied by , so the numerator needs to be multiplied by for the fractions to be equivalent			

Maths Three Repeating Golden Threads



Mastery

Pupils acquire a deep, long-term, secure adaptable understanding

Fluency

Quick and. efficient recall of facts and procedures

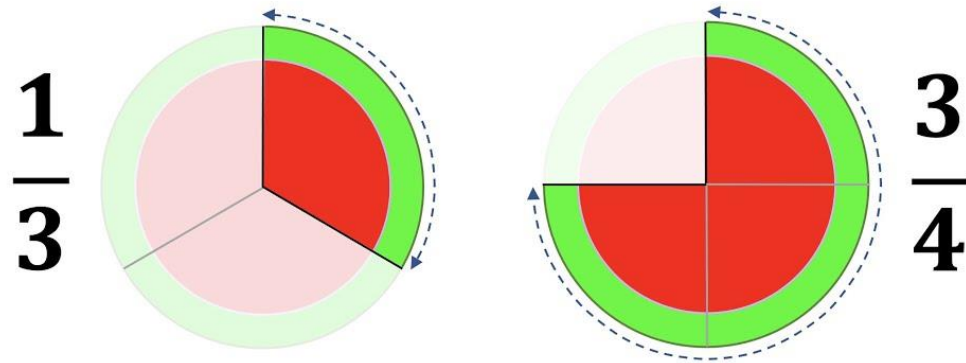
Application

The use of maths everyday in the real world, outside the classroom.



A non-unit fraction is a fraction where the numerator is greater than 1. For example, $\frac{3}{4}$ is a non-unit fraction

Fractions, unit & non-unit fractions



Crucial Vocab...

Non-unit fraction

mixed number

numerator

Proper fraction

Non-unit fraction
mixed number
numerator
Proper fraction

Non-unit fraction
mixed number
numerator
Proper fraction

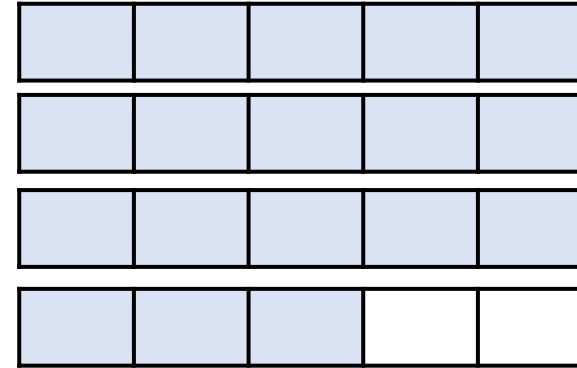
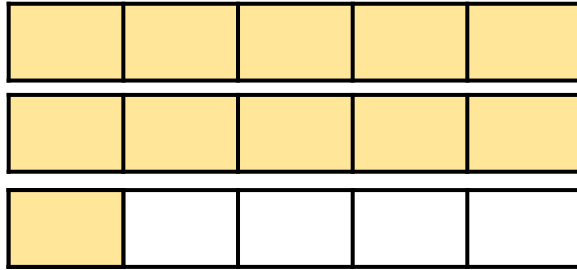
Non-unit fraction
mixed number
numerator
Proper fraction

Non-unit fraction
mixed number
numerator
Proper fraction

Non-unit fraction
mixed number
numerator
Proper fraction

Non-unit fraction
mixed number
numerator
Proper fraction

$$2\frac{1}{5} + 3\frac{3}{5} = \frac{29}{5} = 5\frac{4}{5}$$

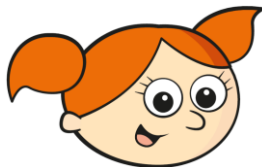


$$2\frac{1}{5} = \frac{11}{5}$$

$$3\frac{3}{5} = \frac{18}{5}$$



$$\frac{11}{5} + \frac{18}{5} = \frac{29}{5}$$

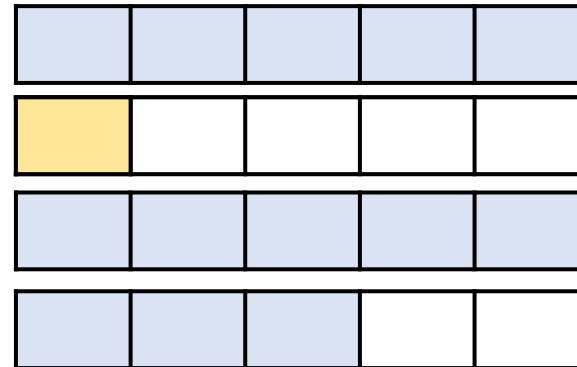
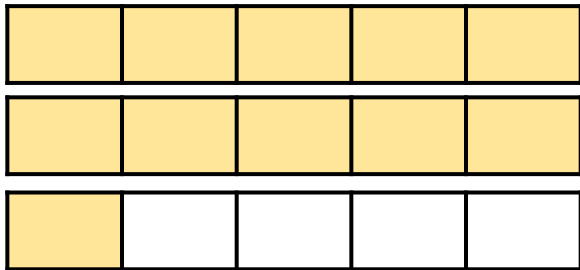


I'm going to convert both mixed numbers to improper fractions first

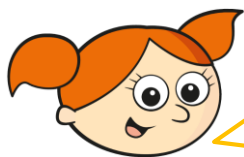
$$2\frac{1}{5} + 3\frac{3}{5} = 5\frac{4}{5}$$



I'm going to add my whole numbers and fractions separately.



The mixed numbers can be partitioned into a whole part and a fractional part. $2 + 3 = 5$ and $\frac{1}{5} + \frac{3}{5} = \frac{4}{5}$



I'm going to convert them both to improper fractions first

$$2\frac{1}{5} = \frac{11}{5}$$

$$3\frac{3}{5} = \frac{18}{5}$$

$$\frac{11}{5} + \frac{18}{5} = \frac{29}{5} = 5\frac{4}{5}$$



I'm going to add my whole numbers and fractions separately.

$$2 + 3 = 5$$

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

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

Whose method do you prefer? Why?



I'm going to convert them both to improper fractions first

$$2\frac{1}{5} = \frac{11}{5} \qquad 3\frac{3}{5} = \frac{18}{5}$$

$$\frac{11}{5} + \frac{18}{5} = \frac{29}{5} = 5\frac{4}{5}$$



I'm going to add my whole numbers and fractions separately.

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

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Whose method do you prefer? Why?



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I'm going to add my whole numbers and fractions separately.

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

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

Whose method do you prefer? Why?

I do

a) $1\frac{2}{5} + 2\frac{3}{10} =$

You do

b) $2\frac{2}{5} + 2\frac{3}{10} =$

c) $1\frac{3}{4} + 3\frac{3}{20} =$

4 Complete the additions.

a) $2\frac{3}{4} + 3\frac{5}{12} =$

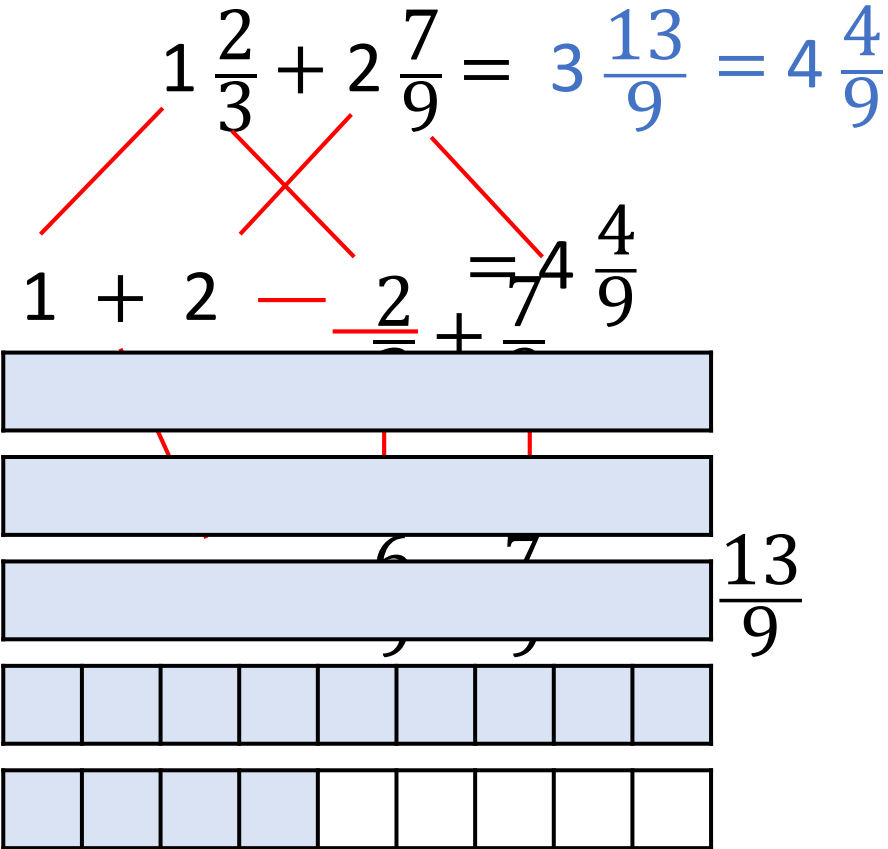
c) $5\frac{1}{6} + 3\frac{11}{12} =$

b) $3\frac{2}{3} + 2\frac{7}{12} =$

d) $6\frac{7}{15} + 3\frac{3}{5} =$



Have a think



The fractional parts of the answer are converted into a proper fraction, so we need a carrying card. I will make the denominators 9, so we need a carrying card.



Here are some fraction cards.

$$\frac{4}{5}$$

$$\frac{2}{3}$$

$$\frac{1}{4}$$

Decide which fraction card belongs in which calculation.

$$4\frac{7}{9} = 4\frac{1}{9} + \boxed{}$$

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

$$\frac{43}{10} = 3\frac{1}{2} + \boxed{}$$



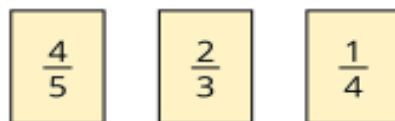
dd to a mixed number

$$\boxed{6} \frac{\boxed{2}}{4} + \boxed{4} \frac{\boxed{2}}{4} = 7 \frac{\boxed{3}}{\boxed{4}}$$

$$3 \frac{\boxed{}}{6} + \boxed{} \frac{\boxed{}}{3} = \frac{\boxed{}}{6} = 6$$

Have a think 

Here are some fraction cards.



Decide which fraction card belongs in which calculation.

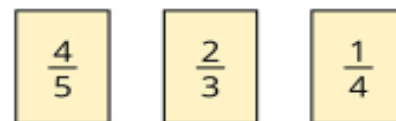
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$$3\frac{3}{8} + \boxed{} = 3\frac{5}{8}$$

$$\frac{43}{10} = 3\frac{1}{2} + \boxed{}$$

Weds

Here are some fraction cards.



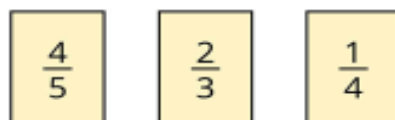
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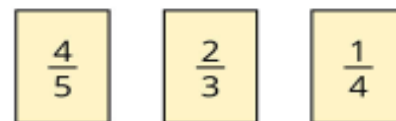
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$$4\frac{7}{9} = 4\frac{1}{9} + \boxed{}$$

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

$$\frac{43}{10} = 3\frac{1}{2} + \boxed{}$$



8

Here are some number cards.

$$3\frac{1}{6}$$

$$2\frac{11}{12}$$

$$2\frac{5}{6}$$

$$3\frac{5}{6}$$

$$4\frac{1}{12}$$

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

a) What is the greatest total you can make with two cards?

b) What is the smallest total you can make with two cards?

Maths Meeting-Weds

Times tables practise



Times tables practice – x 9 x 8

https://www.youtube.com/watch?v=z_BJjR9rdwA

<https://www.dkfindout.com/uk/maths/times-tables/9-times-table/>

Circles practice- stick in maths books

Spring 1 2024 Thurs

10.1.24

LO: To subtract fractions

$$1) \frac{2}{3} = \frac{\boxed{}}{9}$$

Answer in
books-

$$2) \frac{\boxed{}}{2} = \frac{6}{12}$$

$$3) \frac{8}{9} - \frac{5}{9} =$$

$$4) \frac{7}{10} - \frac{3}{10} =$$

$$1) \frac{2}{3} = \frac{\boxed{}}{9}$$

$$2) \frac{\boxed{}}{2} = \frac{6}{12}$$

$$3) \frac{8}{9} - \frac{5}{9} =$$

$$4) \frac{7}{10} - \frac{3}{10} =$$

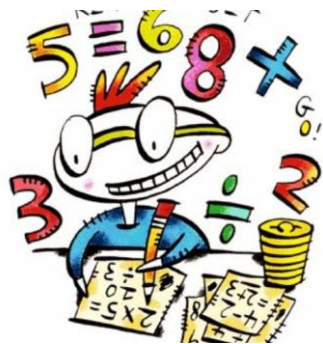
$$1) \frac{2}{3} = \frac{6}{9}$$

$$2) \frac{1}{2} = \frac{6}{12}$$

$$3) \frac{8}{9} - \frac{5}{9} = \frac{3}{9}$$

$$4) \frac{7}{10} - \frac{3}{10} = \frac{4}{10}$$

Maths Three Repeating Golden Threads



Mastery

Pupils acquire a deep, long-term, secure adaptable understanding

Fluency

Quick and. efficient recall of facts and procedures

Application

The use of maths everyday in the real world, outside the classroom.





Term Autumn 2	Week beginning 4.12.23		
<u>Block Fractions A</u>			
<u>Key vocabulary</u> numerator convert improper denominator equivalent mixed number order compare			
	WT	EX	S
To compare and order fractions greater than 1			
To add and subtract fractions with same denominator			
To add fractions within 1			
To add fractions with total greater than 1			
Add to a mixed number			
Add two mixed numbers			
Subtract fractions			
Subtract from a mixed number			
Subtract two mixed numbers			
<u>Stem sentences</u>			
• If the number of wholes is different, then the number with wholes is greater. • If the number of wholes is equal, then I need to compare the • When adding/subtracting fractions with the same denominators, I just add/subtract the • Fractions must have the same before you can add them. • The denominator has been multiplied by , so the numerator needs to be multiplied by for the fractions to be equivalent			

Crucial Vocab...

fraction

denominator

numerator

subtract

fraction
denominator
numerator
subtract

fraction
denominator
numerator
subtract

fraction
denominator
numerator
subtract

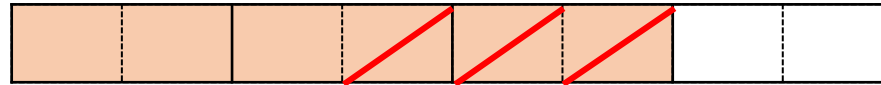
fraction
denominator
numerator
subtract

fraction
denominator
numerator
subtract

fraction
denominator
numerator
subtract

$$\begin{array}{l} \times 2 \\ \times 2 \end{array} \left\{ \begin{array}{l} \frac{3}{4} \\ \frac{3}{8} \end{array} \right. - \frac{3}{8} = \frac{3}{8}$$

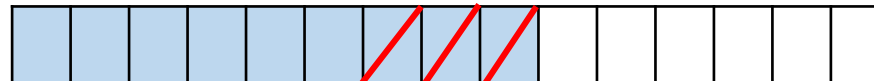
$\frac{3}{8}$



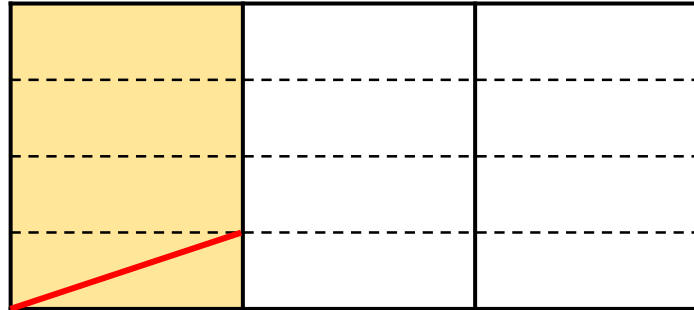
$$\frac{9}{15} - \frac{1}{5} = \frac{6}{15}$$

$\frac{6}{15}$

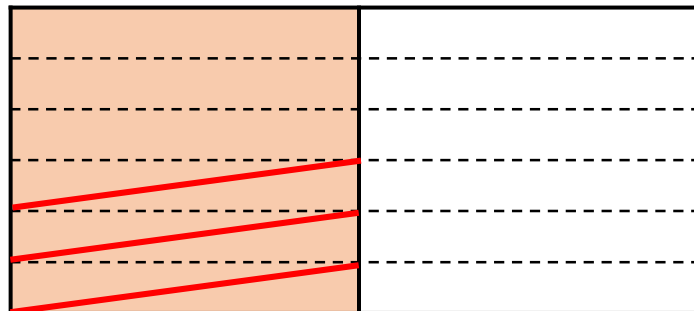
Have a think



$$\frac{1}{3} - \frac{1}{12} = \frac{3}{12}$$



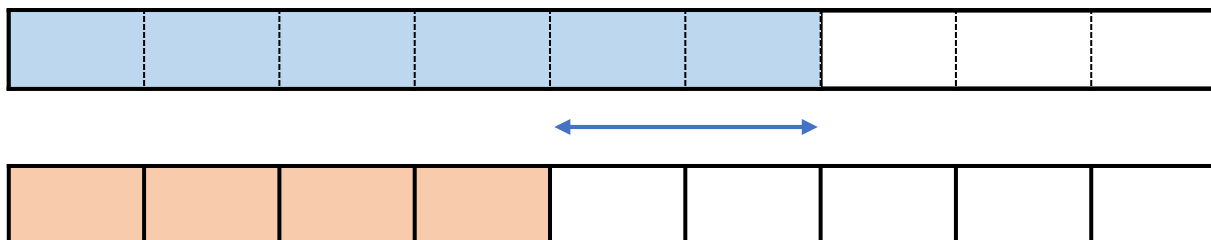
$$\frac{1}{2} - \frac{3}{12} = \frac{3}{12}$$



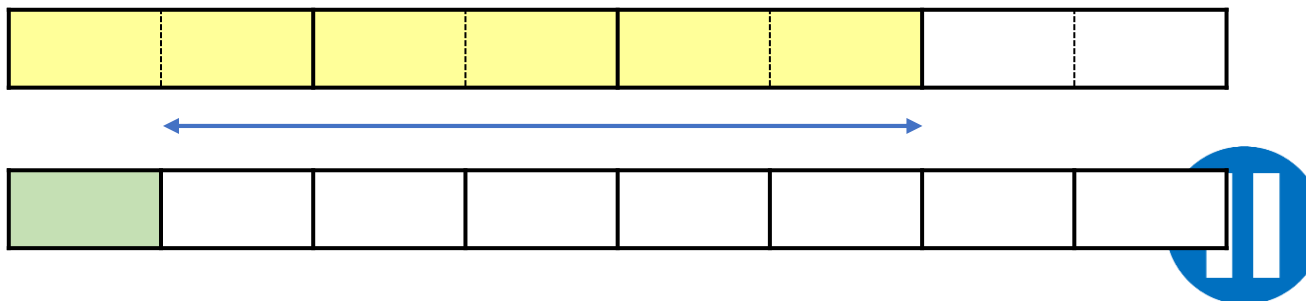
re a think



$$\frac{2}{3} - \frac{4}{9} = \frac{2}{9}$$



$$\frac{3}{4} - \frac{1}{8} = \frac{5}{8}$$



$$\frac{5}{6} - \frac{12}{18}$$

$$\frac{15}{18}$$

$$\frac{9}{10} - \frac{2}{10}$$

$$\frac{15}{18} - \frac{12}{18}$$

$$\frac{7}{8} - \frac{1}{16}$$

$$\frac{28}{32} - \frac{2}{32}$$

$$\frac{28}{32} - \frac{2}{32}$$

$$\frac{9}{10} - \frac{1}{5}$$

$$\frac{2}{10}$$

Have a think $\frac{15}{18} - \frac{12}{18}$

$$\frac{5}{6} - \frac{12}{18}$$

$$\frac{9}{10} - \frac{2}{10}$$

$$\frac{5}{6} - \frac{12}{18}$$

$$\frac{9}{10} - \frac{2}{10}$$

$$\frac{7}{8} - \frac{1}{16}$$

$$\frac{15}{18} - \frac{12}{18}$$

$$\frac{7}{8} - \frac{1}{16}$$

$$\frac{15}{18} - \frac{12}{18}$$

$$\frac{9}{10} - \frac{1}{5}$$

$$\frac{28}{32} - \frac{2}{32}$$

$$\frac{9}{10} - \frac{1}{5}$$

$$\frac{28}{32} - \frac{2}{32}$$

$$\frac{5}{6} - \frac{12}{18}$$

$$\frac{9}{10} - \frac{2}{10}$$

$$\frac{5}{6} - \frac{12}{18}$$

$$\frac{9}{10} - \frac{2}{10}$$

$$\frac{7}{8} - \frac{1}{16}$$

$$\frac{15}{18} - \frac{12}{18}$$

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$$\frac{15}{18} - \frac{12}{18}$$

$$\frac{9}{10} - \frac{1}{5}$$

$$\frac{28}{32} - \frac{2}{32}$$

$$\frac{9}{10} - \frac{1}{5}$$

$$\frac{28}{32} - \frac{2}{32}$$

$$\frac{5}{6} - \frac{12}{18}$$

$$\frac{9}{10} - \frac{2}{10}$$

$$\frac{5}{6} - \frac{12}{18}$$

$$\frac{9}{10} - \frac{2}{10}$$

$$\frac{7}{8} - \frac{1}{16}$$

$$\frac{15}{18} - \frac{12}{18}$$

$$\frac{7}{8} - \frac{1}{16}$$

$$\frac{15}{18} - \frac{12}{18}$$

$$\frac{9}{10} - \frac{1}{5}$$

$$\frac{28}{32} - \frac{2}{32}$$

$$\frac{9}{10} - \frac{1}{5}$$

$$\frac{28}{32} - \frac{2}{32}$$

Thurs

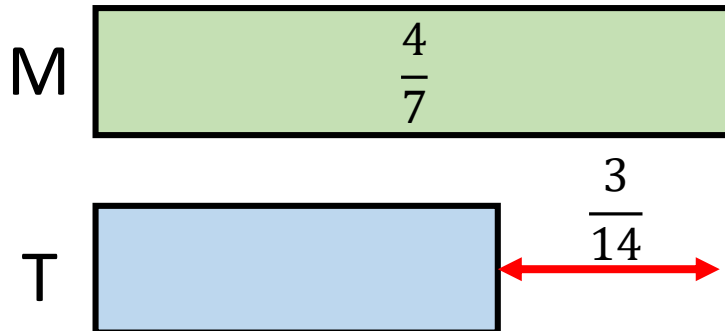


On Monday Whitney reads for $\frac{4}{7}$ of an hour.



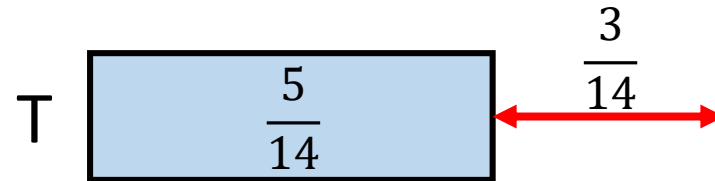
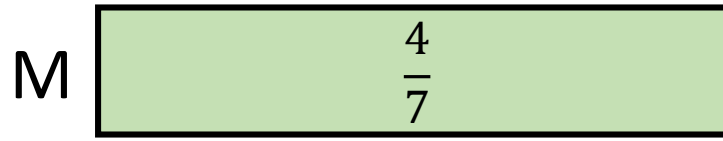
On Tuesday she reads for $\frac{3}{14}$ of an hour less than on Monday.

For how long does Whitney read on Monday and Tuesday altogether?



Have a think





$$\frac{4}{7} - \frac{3}{14} =$$

$$\frac{8}{14} - \frac{3}{14} = \frac{5}{14}$$

For how long does Whitney read on Monday and Tuesday altogether? $\frac{4}{7} + \frac{5}{14} =$

$$\frac{8}{14} + \frac{5}{14} = \frac{13}{14} \text{ of an hour}$$

Subtract fractions

1

Complete the subtractions.

Use the bar models to help you.

a)



$$\frac{5}{6} - \frac{1}{2} = \boxed{}$$

b)



$$\frac{5}{6} - \frac{1}{3} = \boxed{}$$



S group

1

c)

--	--	--	--	--	--	--	--

$$\frac{7}{8} - \frac{3}{4} = \boxed{}$$

d)

--	--	--	--	--	--	--	--

$$\frac{1}{2} - \frac{3}{8} = \boxed{}$$

Over to you...S grp Thurs

1 Complete the subtractions.

Use the bar models to help you.

a)



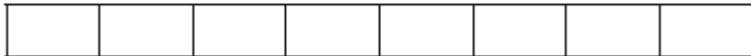
$$\frac{5}{6} - \frac{1}{2} = \boxed{}$$

b)



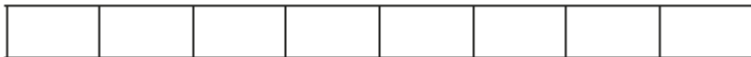
$$\frac{5}{6} - \frac{1}{3} = \boxed{}$$

c)



$$\frac{7}{8} - \frac{3}{4} = \boxed{}$$

d)



$$\frac{1}{2} - \frac{3}{8} = \boxed{}$$

1 Complete the subtractions.

Use the bar models to help you.

a)



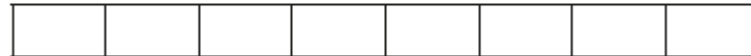
$$\frac{5}{6} - \frac{1}{2} = \boxed{}$$

b)



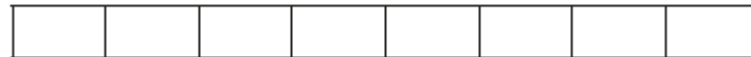
$$\frac{5}{6} - \frac{1}{3} = \boxed{}$$

c)



$$\frac{7}{8} - \frac{3}{4} = \boxed{}$$

d)



$$\frac{1}{2} - \frac{3}{8} = \boxed{}$$

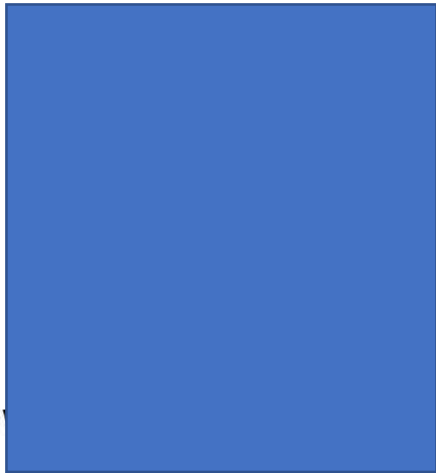
Copy into books

4

Complete the subtractions.

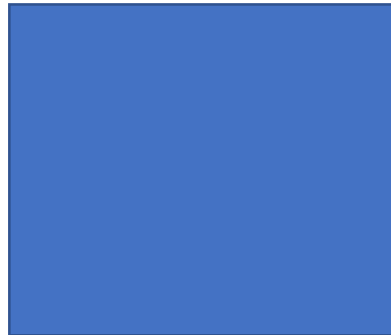
a) $\frac{7}{8} - \frac{1}{16} =$

$\frac{5}{8} - \frac{1}{16} =$

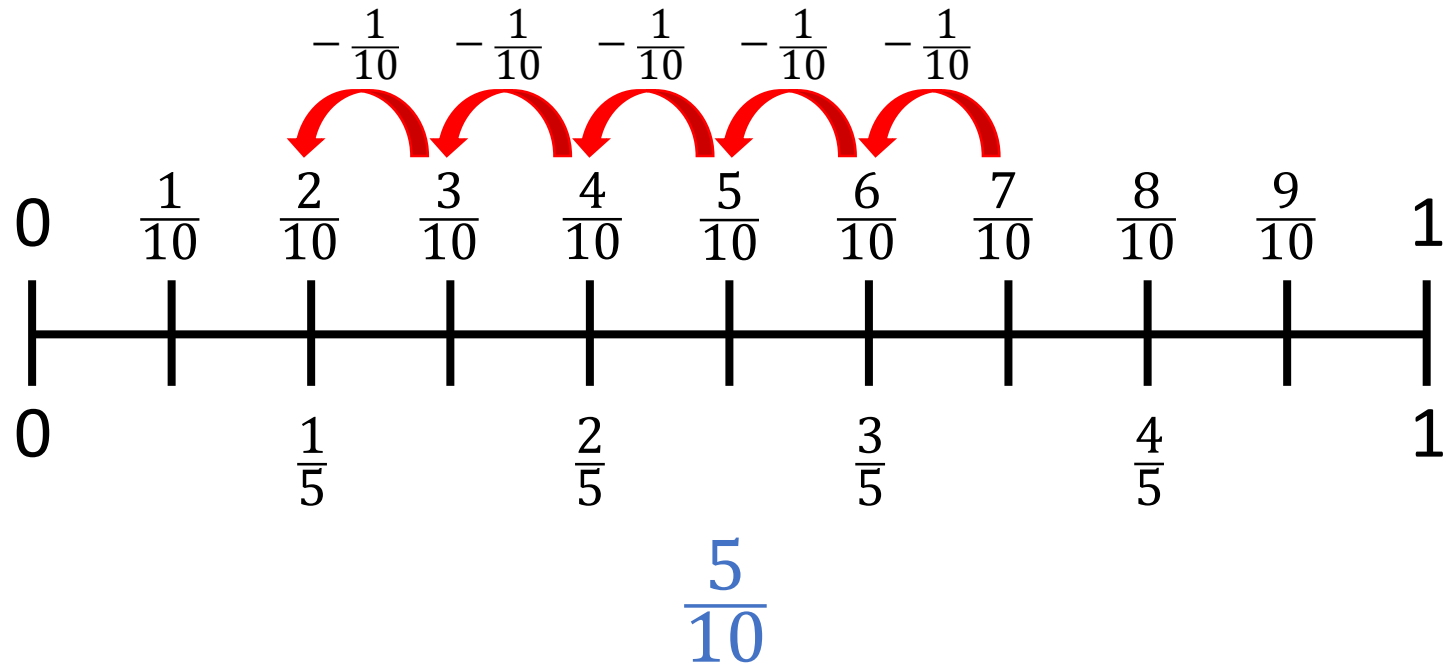


b) $\frac{6}{7} - \frac{2}{21} =$

$\frac{5}{7} - \frac{4}{21} =$

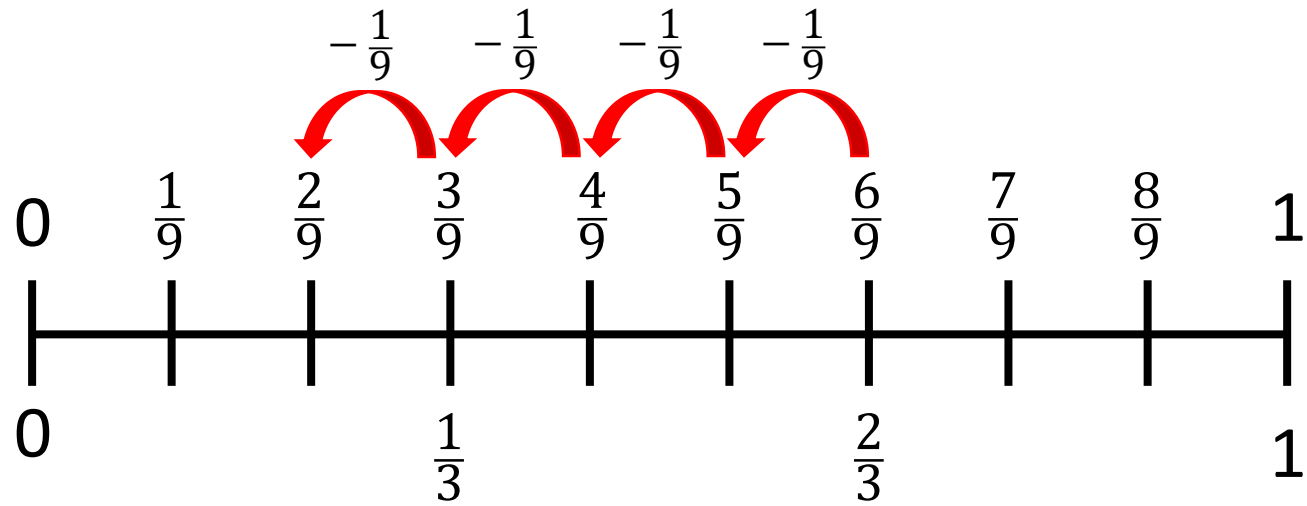


What is the difference between $\frac{7}{10}$ and $\frac{1}{5}$?



Modelled

What is the difference between $\frac{2}{3}$ and $\frac{2}{9}$?



$\frac{4}{9}$

Have a think



You do!

5

On Saturday, Alex cycles for $\frac{2}{3}$ of an hour.

On Sunday, she cycles for $\frac{5}{12}$ of an hour.



- a)** How many more hours does Alex cycle on Saturday than Sunday?

of an hour

- b)** How many more minutes does Alex cycle on Saturday than Sunday?

minutes



5

On Saturday, Alex cycles for $\frac{2}{3}$ of an hour.

On Sunday, she cycles for $\frac{5}{12}$ of an hour.



- a) How many more hours does Alex cycle on Saturday than Sunday?

of an hour

- b) How many more minutes does Alex cycle on Saturday than Sunday?

minutes

5

On Saturday, Alex cycles for $\frac{2}{3}$ of an hour.

On Sunday, she cycles for $\frac{5}{12}$ of an hour.



- a) How many more hours does Alex cycle on Saturday than Sunday?

of an hour

- b) How many more minutes does Alex cycle on Saturday than Sunday?

minutes

5

On Saturday, Alex cycles for $\frac{2}{3}$ of an hour.

On Sunday, she cycles for $\frac{5}{12}$ of an hour.



- a) How many more hours does Alex cycle on Saturday than Sunday?

of an hour

- b) How many more minutes does Alex cycle on Saturday than Sunday?

minutes

5

On Saturday, Alex cycles for $\frac{2}{3}$ of an hour.

On Sunday, she cycles for $\frac{5}{12}$ of an hour.



- a) How many more hours does Alex cycle on Saturday than Sunday?

of an hour

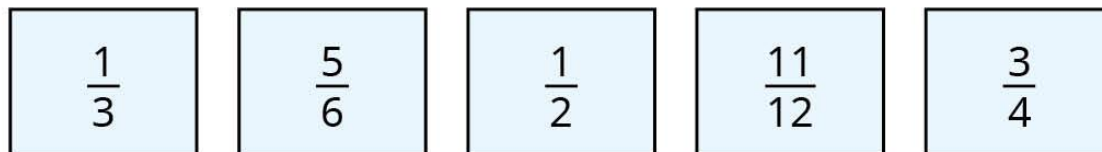
- b) How many more minutes does Alex cycle on Saturday than Sunday?

minutes

Thurs



6 Here are some fraction cards.



a) Which two fractions have a difference of $\frac{1}{4}$?

$$\boxed{} - \boxed{} = \frac{1}{4}$$

b) Which two fractions have a difference of $\frac{1}{2}$?

$$\boxed{} - \boxed{} = \frac{1}{2}$$

- 6 c) Which two fractions have a difference of $\frac{1}{12}$?
Give two possible answers.

$$\boxed{} - \boxed{} = \frac{1}{12}$$

$$\boxed{} - \boxed{} = \frac{1}{12}$$

Maths Meeting-Thurs



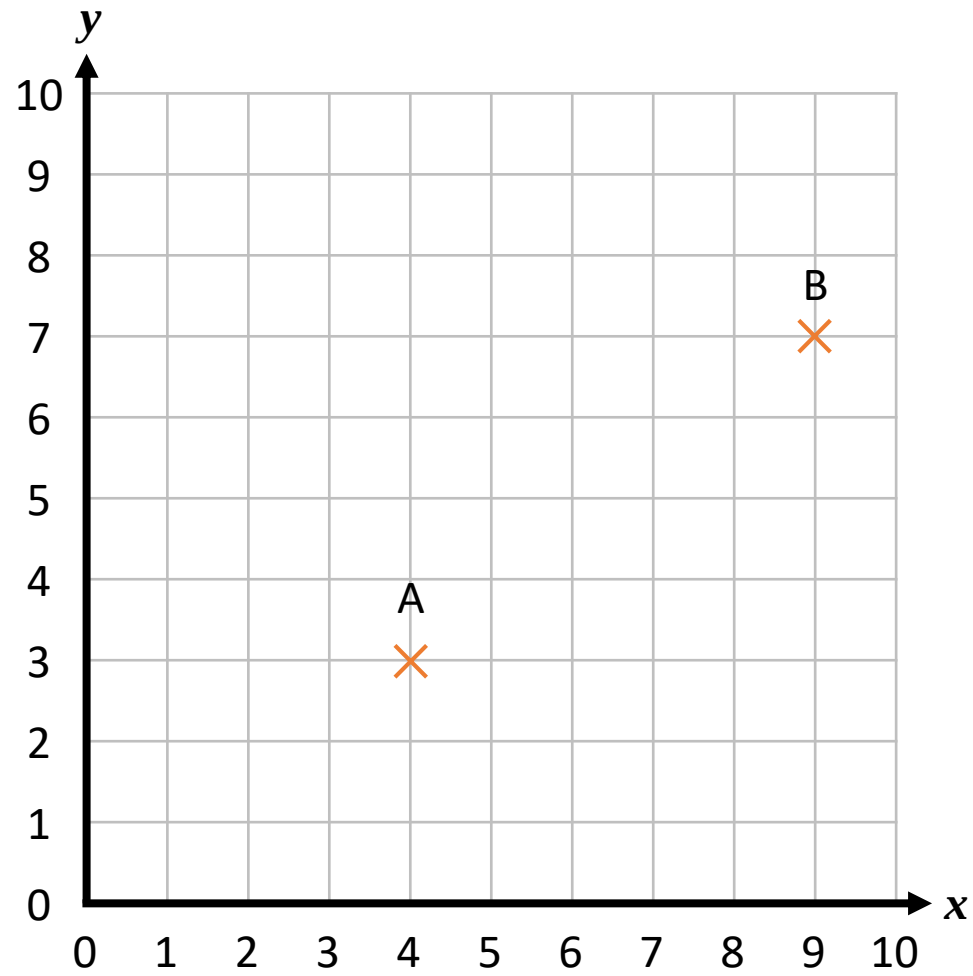


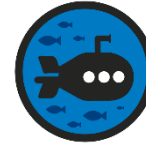
What are the coordinates of point A?

What are the coordinates of point B?

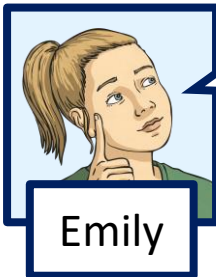
A = (,)

B = (,)





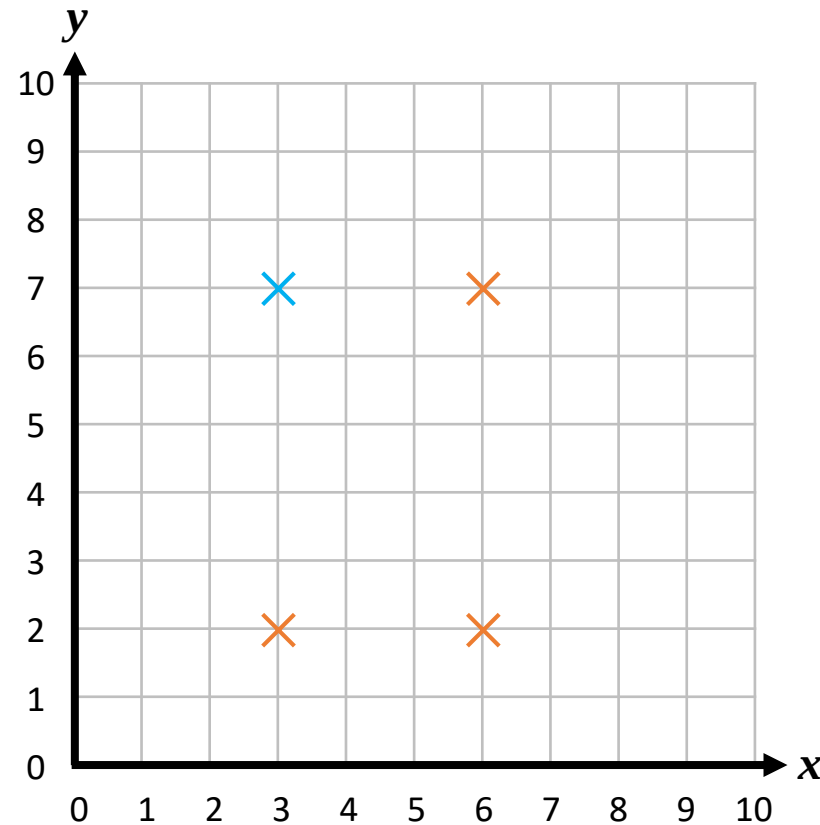
Emily and Hari have put a blue cross on the grid to plot the final vertex of a rectangle. Who is correct? Explain your reasoning.



The coordinates of the vertex we have plotted are $(3, 7)$.

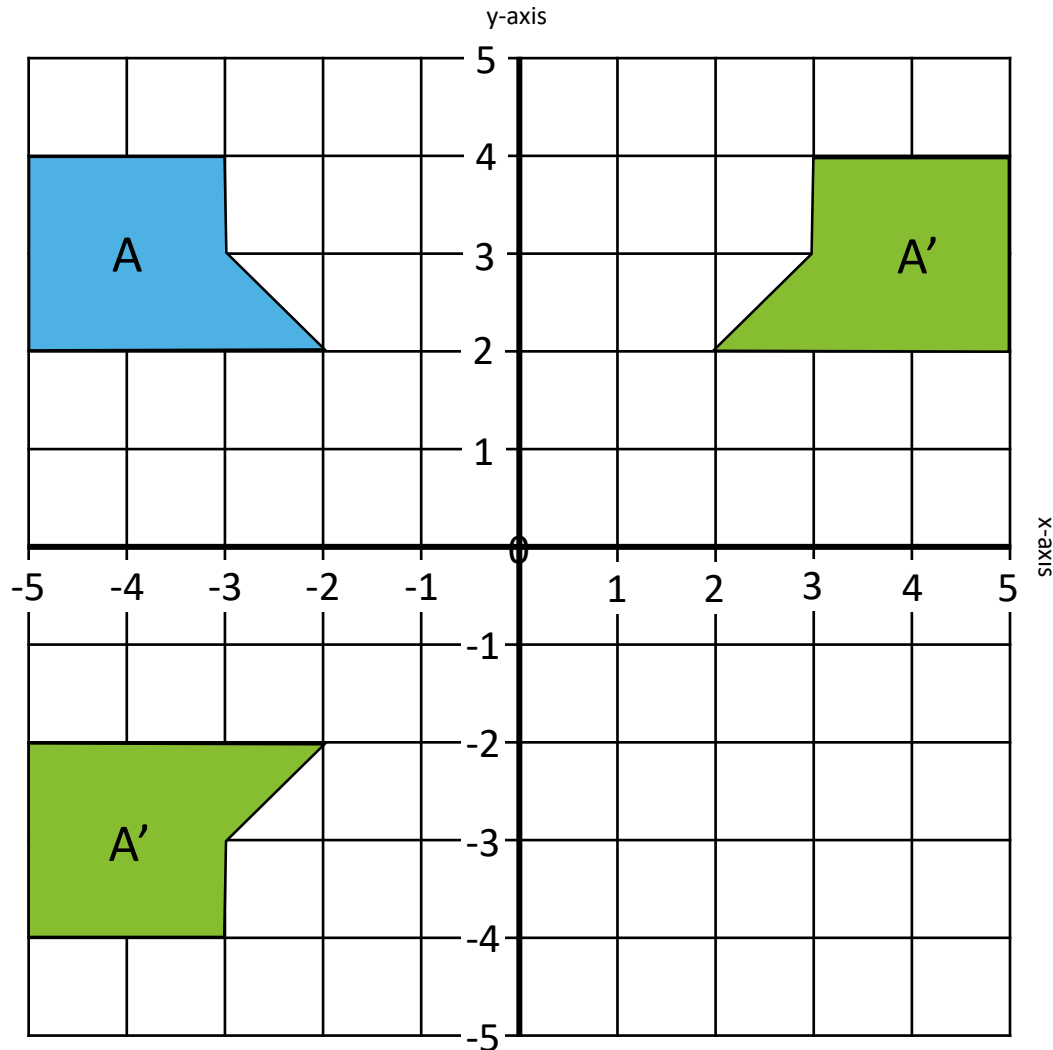


The coordinates of the vertex we have plotted are $(7, 3)$.



Reflections

Diving



Shape A is reflected in the y-axis.

Give the coordinates of the reflected shape.

(2,2) (3,3) (3,4) (5,4)
(5,2)

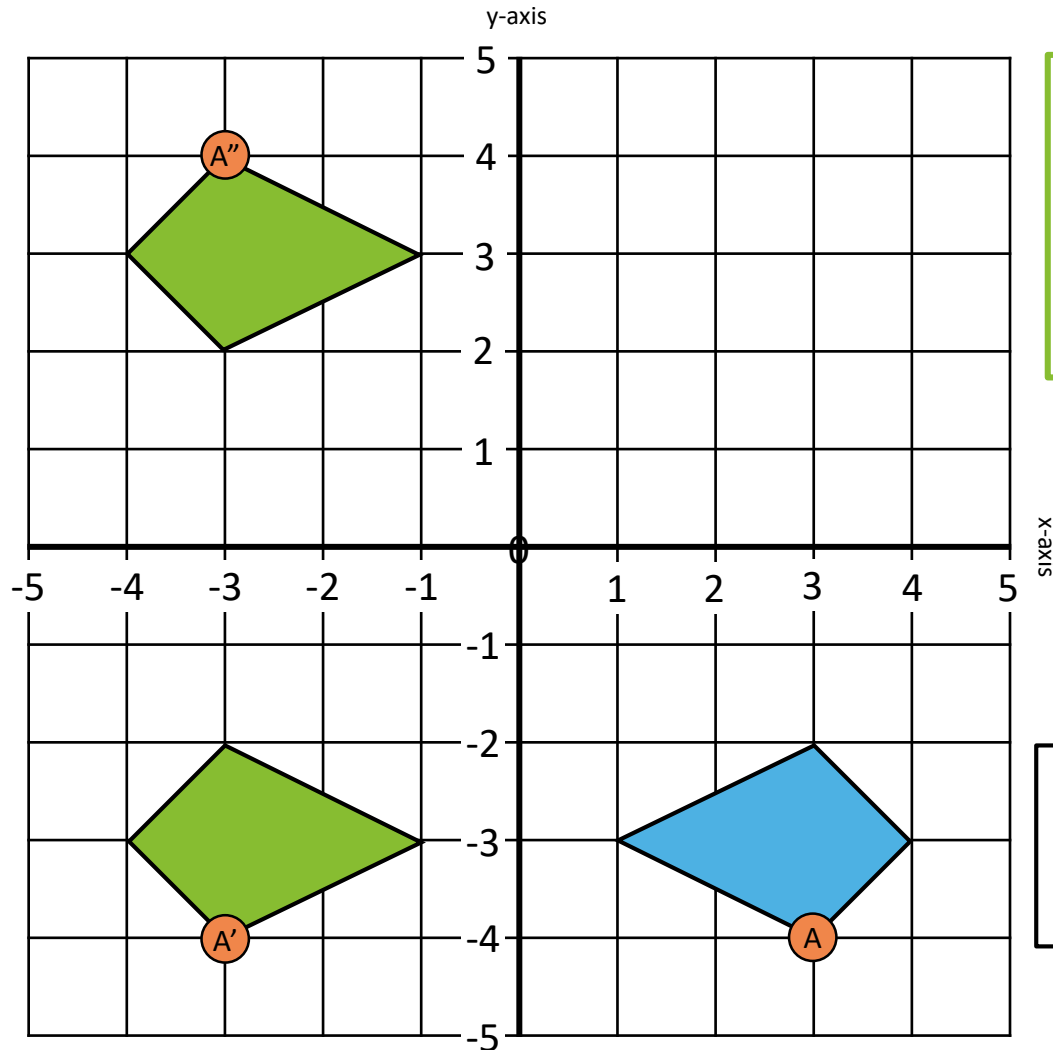
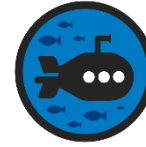
The original shape is now reflected in the x-axis.

Give the coordinates of the reflected shape.

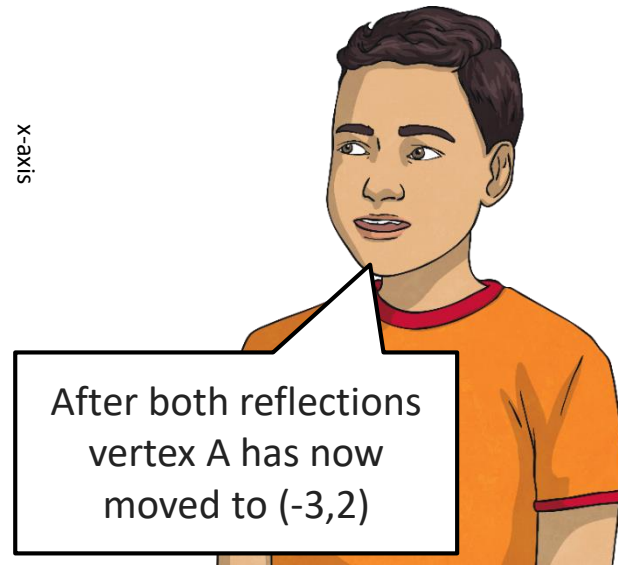
(-5,-2) (-2,-2) (-3,-3) (-3,-4) (-5,-4)

Reflections

Deeper



Dylan is incorrect. He has given the coordinate for the wrong vertex. Vertex A is now at $(-3, 4)$ after the reflection in the x-axis.

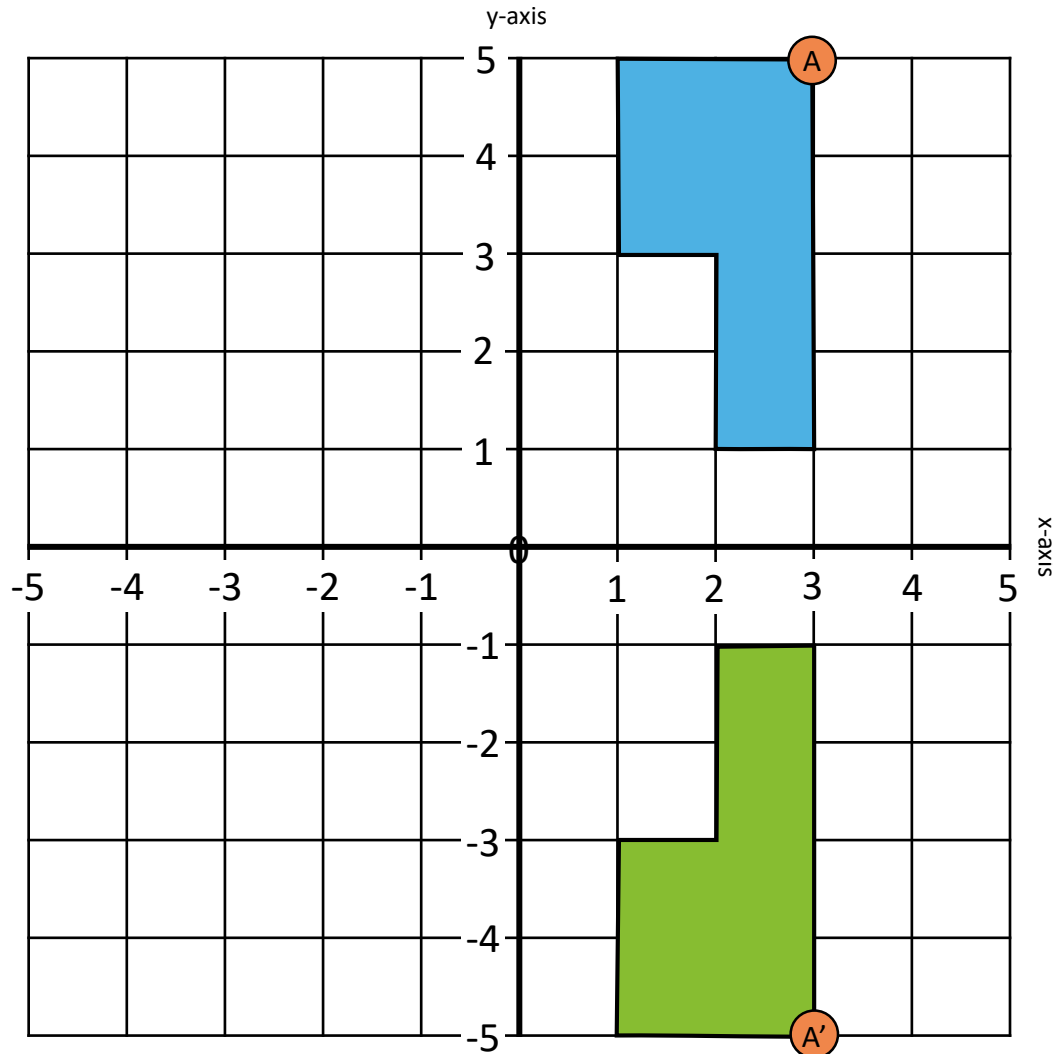


After both reflections vertex A has now moved to $(-3, 2)$

Is Dylan correct? Explain your answer.

Reflections

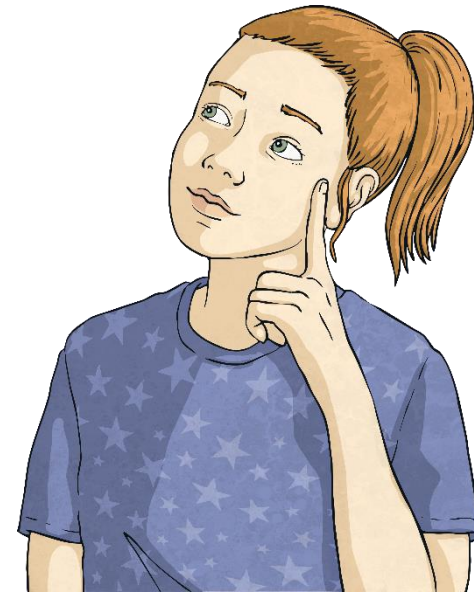
Deepest



Ellie has drawn shape A onto this coordinate grid. She has labelled one of the vertices as A.

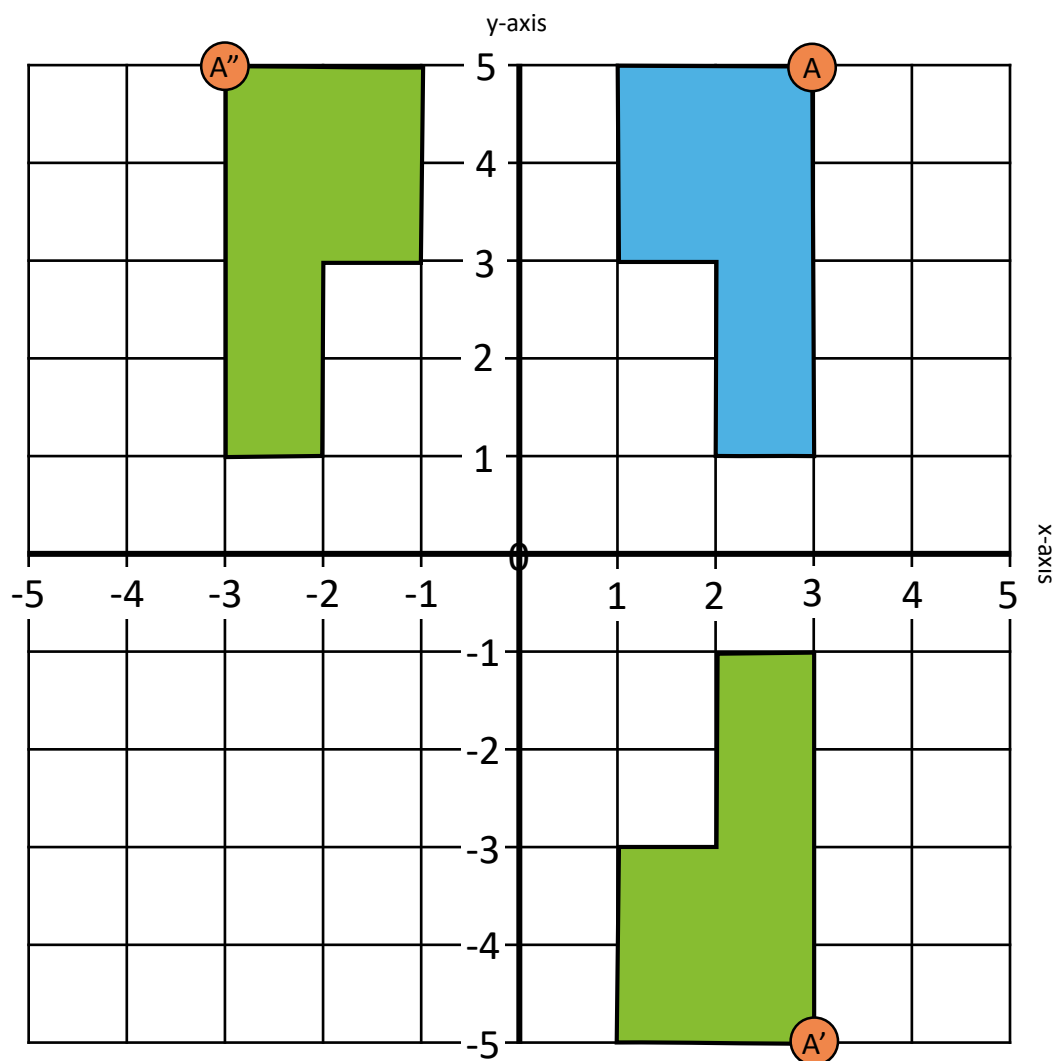
She reflects this shape in the x-axis. Give the coordinates of vertex A after the reflection.

(3, -5)



Reflections

Deepest

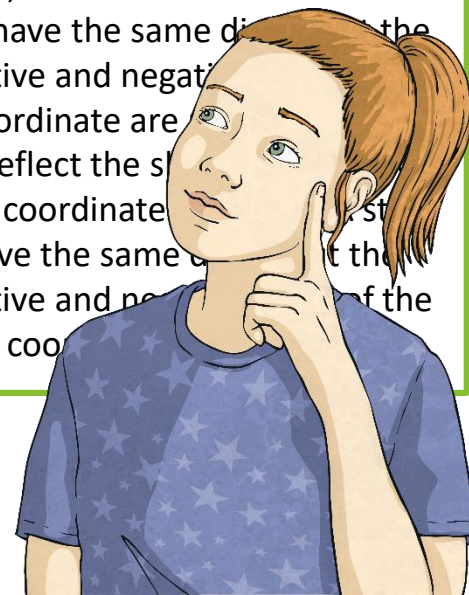


Ellie now reflects her original shape in the y-axis. Give the coordinates of point A, after the reflection?

$(-3, 5)$

What do you notice about the coordinates of vertex A after each reflection?

When you reflect the shape in the x-axis, the coordinates of vertex A still have the same distance from the y-axis. The positive and negative x coordinate are swapped. When you reflect the shape in the y-axis, the coordinates of vertex A still have the same distance from the x-axis. The positive and negative y coordinate are swapped.



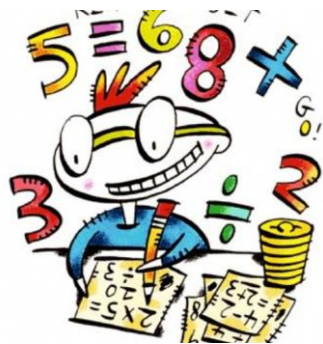
Spring 1

11.1.24 Fri

LO: To subtract fractions from a mixed number

Books- Mixed number and improper
fraction starter task

Maths Three Repeating Golden Threads



Mastery

Pupils acquire a deep, long-term, secure adaptable understanding

Fluency

Quick and. efficient recall of facts and procedures

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The use of maths everyday in the real world, outside the classroom.



Crucial Vocab...

subtract
mixed number
fraction

subtract
mixed number
fraction

subtract
mixed number
fraction

subtract
mixed number
fraction

subtract
mixed number
fraction

subtract
mixed number
fraction

subtract
mixed number
fraction

subtract
mixed number
fraction



Term Autumn 2	Week beginning 4.12.23		
<u>Block Fractions A</u>			
<u>Key vocabulary</u> numerator convert improper denominator equivalent mixed number order compare			
	WT	EX	S
To compare and order fractions greater than 1			
To add and subtract fractions with same denominator			
To add fractions within 1			
To add fractions with total greater than 1			
Add to a mixed number			
Add two mixed numbers			
Subtract fractions			
Subtract from a mixed number			
Subtract two mixed numbers			
<u>Stem sentences</u>			
• If the number of wholes is different, then the number with wholes is greater. • If the number of wholes is equal, then I need to compare the • When adding/subtracting fractions with the same denominators, I just add/subtract the • Fractions must have the same before you can add them. • The denominator has been multiplied by , so the numerator needs to be multiplied by for the fractions to be equivalent			

Recap!

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

$$2) \frac{23}{7} = \boxed{} \frac{\boxed{}}{7}$$

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

$$4) 2 \frac{5}{8} + 3 =$$

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

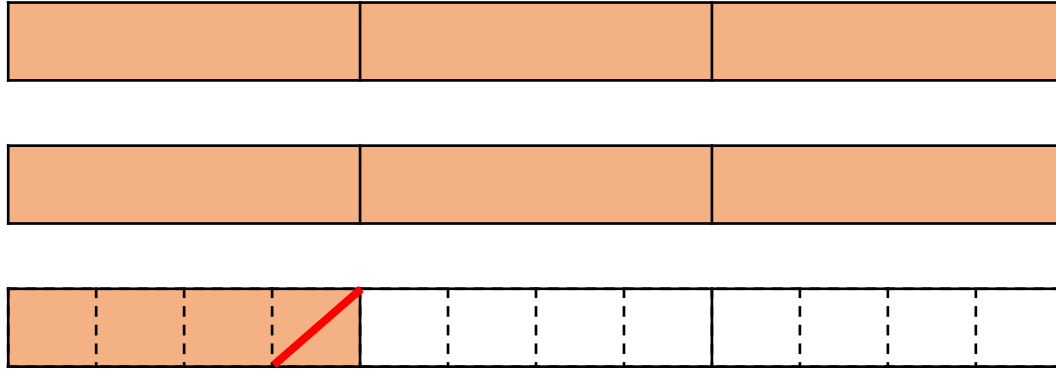
$$2) \frac{23}{7} = 3 \frac{2}{7}$$

$$23 \div 7 = 3 \text{ r } 2$$

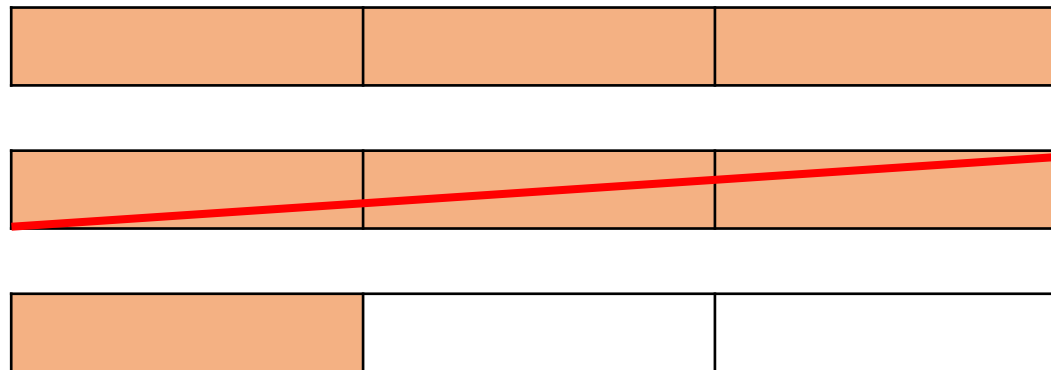
$$3) 1 \frac{1}{4} + \frac{3}{4} = 2$$

$$4) 2 \frac{5}{8} + 3 = 5 \frac{5}{8}$$

$$2\frac{1}{3} - \frac{1}{12} = 2\frac{3}{12}$$

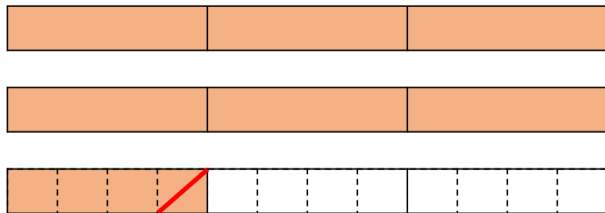


$$2\frac{1}{3} - 1 = 1\frac{1}{3}$$

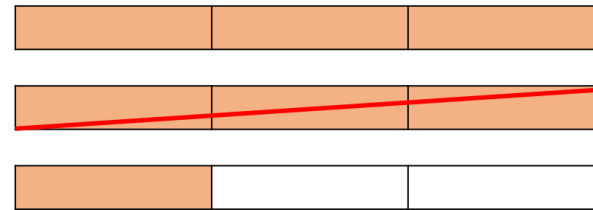


What is the same about each calculation?
What is different?

$$2\frac{1}{3} - \frac{1}{12} = 2\frac{3}{12}$$



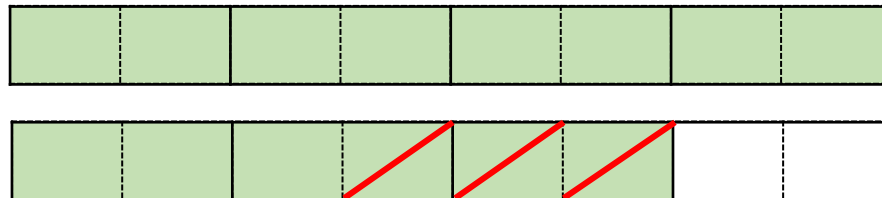
$$2\frac{1}{3} - 1 = 1\frac{1}{3}$$



Have a think 

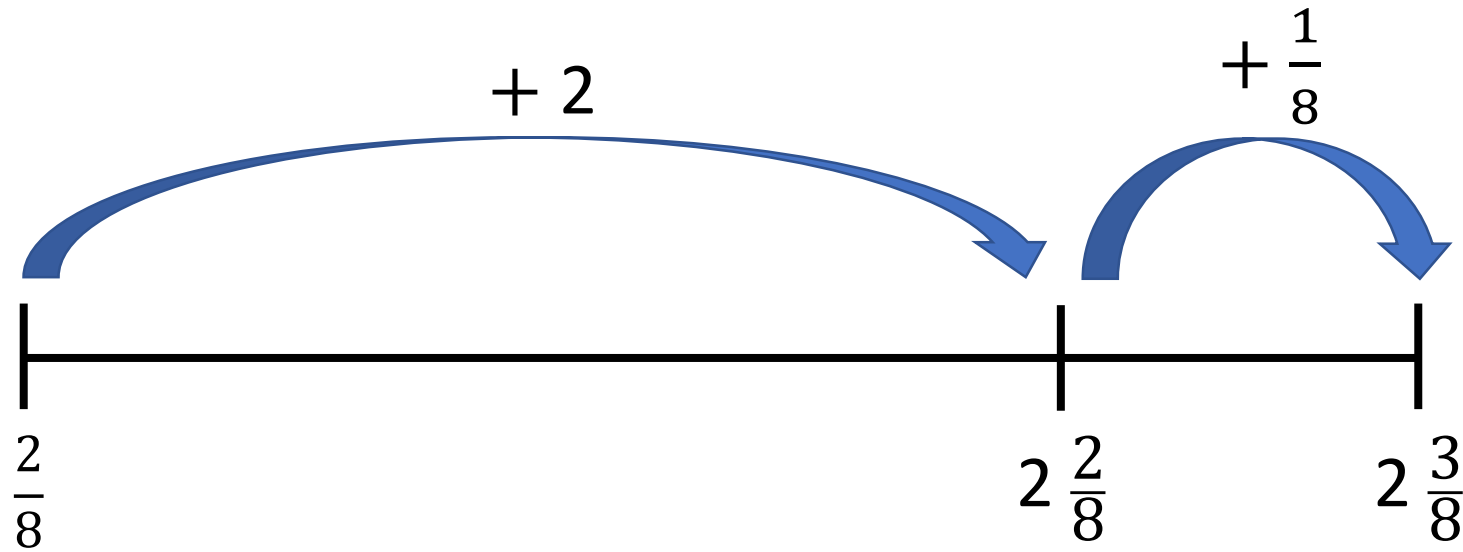
$$\begin{array}{l} \times 2 \\ \times 2 \end{array} \left\{ \begin{array}{l} \frac{7}{4} \\ \frac{3}{8} \end{array} \right. - \frac{3}{8} = \frac{11}{8}$$

$\frac{8}{8}$

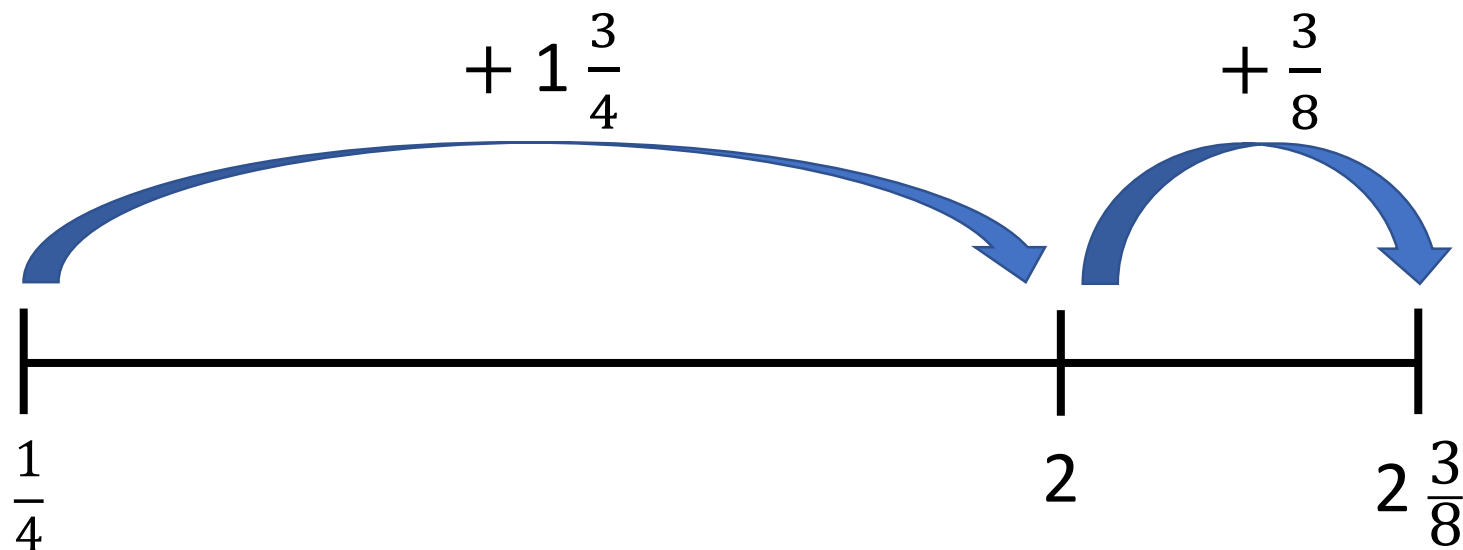


$$2\frac{3}{8} - \frac{1}{4} = 2\frac{1}{8}$$

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



$$2\frac{3}{8} - \frac{1}{4} = \frac{17}{8}$$



$$1\frac{3}{4} = 1\frac{6}{8} = \frac{14}{8} + \frac{3}{8} = \frac{17}{8}$$

Subtract from a mixed number

1 Complete the subtractions.

Use the bar models to help you.

a)

$$\frac{15}{8} - \frac{1}{2} = \boxed{}$$



1

b)

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

$$1\frac{7}{8} - \frac{3}{4} = \boxed{}$$

c)

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

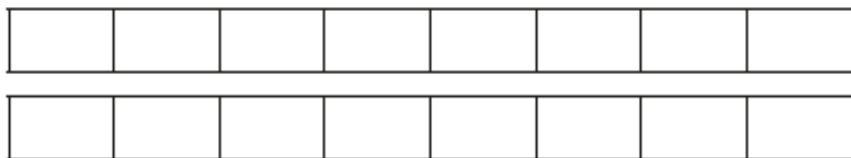
$$1\frac{1}{2} - \frac{3}{8} = \boxed{}$$



1 Complete the subtractions.

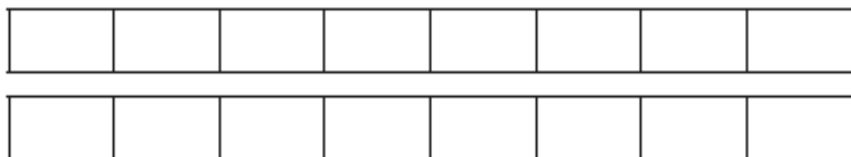
Use the bar models to help you.

a)



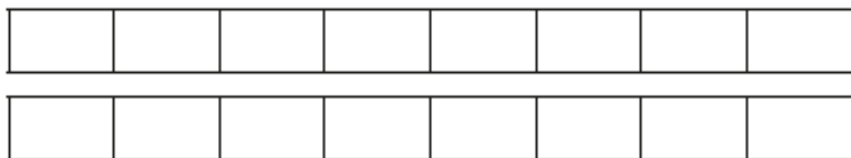
$$\frac{15}{8} - \frac{1}{2} = \boxed{}$$

b)



$$1\frac{7}{8} - \frac{3}{4} = \boxed{}$$

c)

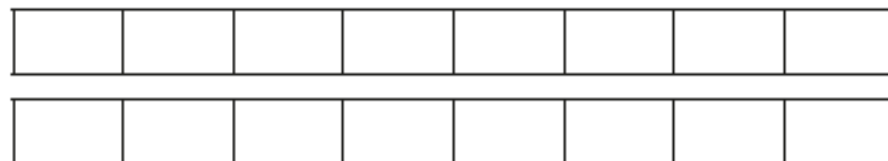


$$1\frac{1}{2} - \frac{3}{8} = \boxed{}$$

1 Complete the subtractions.

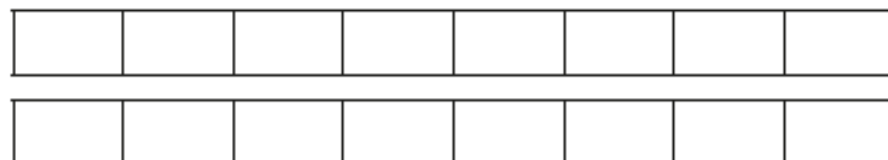
Use the bar models to help you.

a)



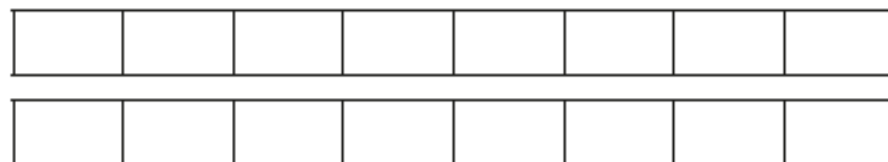
$$\frac{15}{8} - \frac{1}{2} = \boxed{}$$

b)



$$1\frac{7}{8} - \frac{3}{4} = \boxed{}$$

c)



$$1\frac{1}{2} - \frac{3}{8} = \boxed{}$$

I do

a) $3\frac{1}{4} - \frac{5}{24} =$

You do

b) $3\frac{3}{16} - \frac{1}{8} =$

c) $2\frac{5}{6} - \frac{2}{3} =$



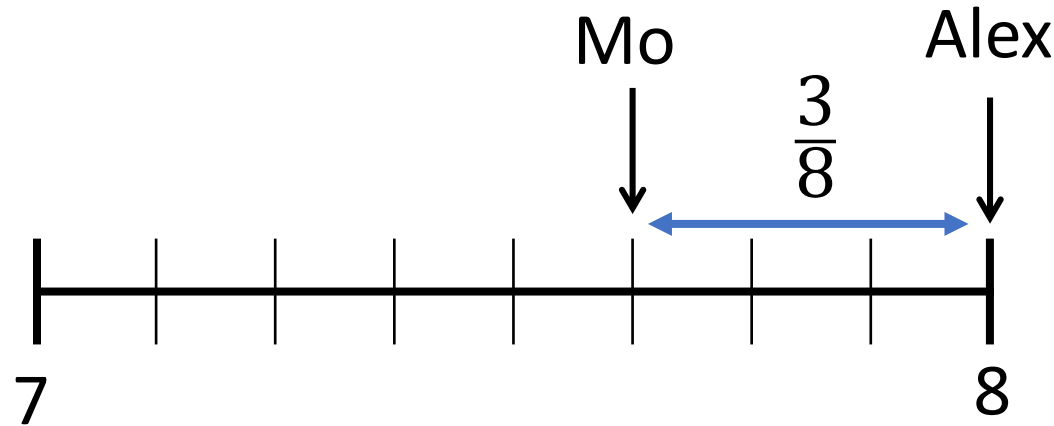
Alex cycles for 8 km.

Mo cycles for $7\frac{5}{8}$ km.

How much further does Alex cycle than Mo?

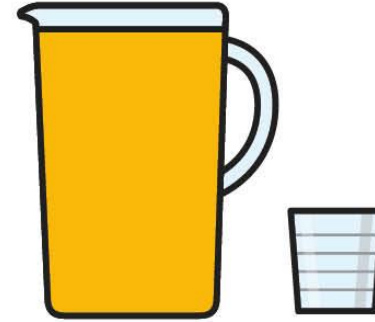
$\frac{3}{8}$ km

Have a think



Model

- 4 A jug contains $1\frac{3}{5}$ litres of orange juice.
Eva pours $\frac{4}{15}$ of a litre into a glass.
How much orange juice is left in the jug?



litres



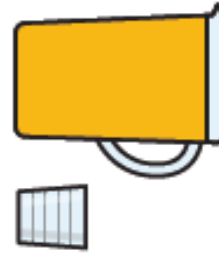
4

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Find as many ways as possible to
complete the calculation.

$$5\frac{\boxed{25}}{30} - \frac{\boxed{4}}{6} = 5\frac{1}{6}$$

$$\frac{\cancel{25}}{30}$$

Have a think





6 Three children take part in throwing competitions.

Here is the table of results.

	Javelin	Shot put	Discus
Tommy	$15\frac{3}{4}$ m	$7\frac{5}{12}$ m	
Amir	$13\frac{3}{8}$ m		$12\frac{7}{8}$ m
Annie		$8\frac{3}{4}$ m	$11\frac{5}{12}$ m

Use the clues to complete the table.

- Annie's javelin throw is $\frac{7}{12}$ m less than Tommy's.
- Amir's shot put throw is $\frac{3}{4}$ m less than Annie's.
- Tommy's discus throw is $\frac{1}{2}$ m less than Amir's.

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