Tuesday 23rd February Teaching Sheet

Add Fractions within 1

Notes and Guidance

Children add fractions with different denominators for the first time where one denominator is a multiple of the other.

They use pictorial representations to convert the fractions so they have the same denominator.

Ensure children always write their working alongside the pictorial representations so they see the clear links.

Mathematical Talk

Can you find a common denominator? Do you need to convert both fractions or just one?

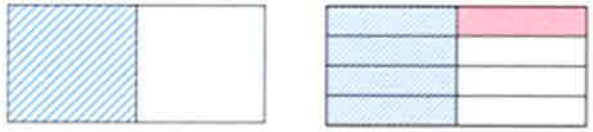
Can you explain Mo and Rosie's methods to a partner? Which method do you prefer?

How do Mo and Rosie's methods support finding a common denominator?

Varied Fluency

Mo is calculating $\frac{1}{2} + \frac{1}{8}$

He uses a diagram to represent the sum.

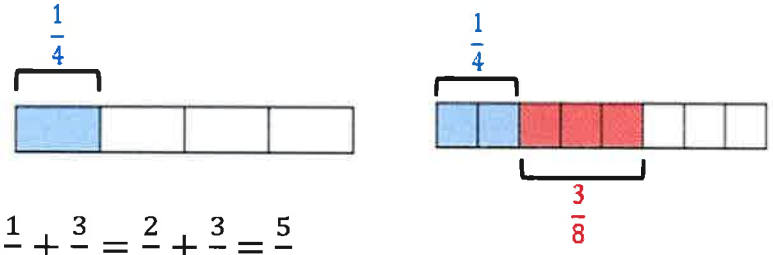


$\frac{1}{2} + \frac{1}{8} = \frac{4}{8} + \frac{1}{8} = \frac{5}{8}$

Use Mo's method to solve :

$\frac{1}{2} + \frac{3}{8}$ $\frac{1}{4} + \frac{3}{8}$ $\frac{7}{10} + \frac{1}{5}$

Rosie is using a bar model to solve $\frac{1}{4} + \frac{3}{8}$



$\frac{1}{4} + \frac{3}{8} = \frac{2}{8} + \frac{3}{8} = \frac{5}{8}$

Use a bar model to solve:

$\frac{1}{6} + \frac{5}{12}$ $\frac{2}{9} + \frac{1}{3}$ $\frac{1}{3} + \frac{4}{15}$

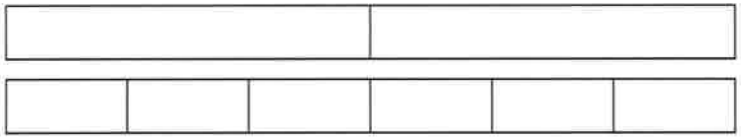
23rd February

Add fractions within 1

1 Complete the additions.

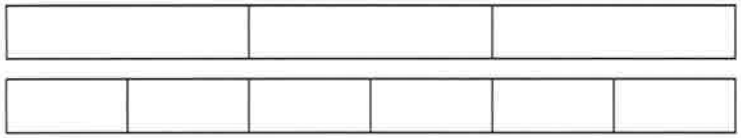
Use the bar models to help you.

a)



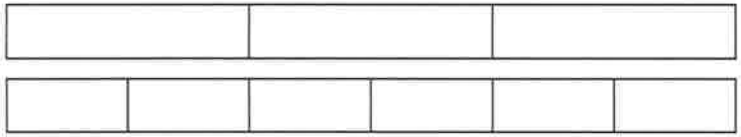
$\frac{1}{2} + \frac{1}{6} = \square$

b)



$\frac{1}{3} + \frac{1}{6} = \square$

c)

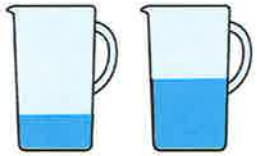


$\frac{2}{3} + \frac{1}{6} = \square$

2 Match the additions that have the same answer.

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

3 Here are two jugs.



One jug contains $\frac{5}{18}$ litres of water.

The other jug contains $\frac{4}{9}$ litres of water.

How many litres of water are there altogether?

There are $\square$ litres of water altogether.

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4 a) Complete the calculations.

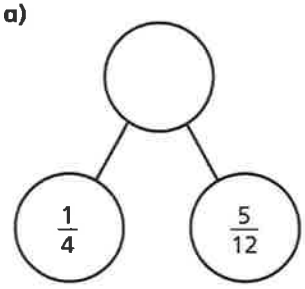
$\frac{1}{5} + \frac{1}{10} = \square$	$\frac{1}{16} + \frac{5}{32} = \square$
$\frac{2}{5} + \frac{1}{10} = \square$	$\frac{1}{8} + \frac{5}{32} = \square$
$\frac{3}{5} + \frac{1}{10} = \square$	$\frac{1}{4} + \frac{5}{32} = \square$
$\frac{4}{5} + \frac{1}{10} = \square$	$\frac{1}{2} + \frac{5}{32} = \square$

b) Can you spot any patterns? Talk to a partner about it.

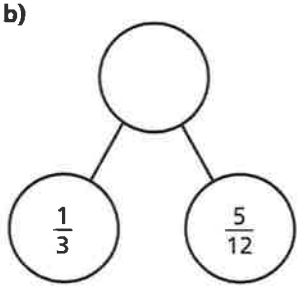
c) What calculation would come next in each set?

5 Complete the part-whole models.

a)



b)



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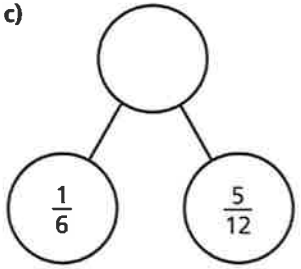

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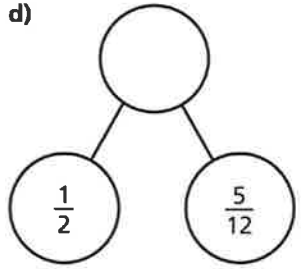

6 $\frac{\square}{8} + \frac{\square}{16} = \frac{7}{8}$

What could the missing numerators be?

Give six different possibilities.

$\frac{\square}{8} + \frac{\square}{16} = \frac{7}{8}$ $\quad$ $\frac{\square}{8} + \frac{\square}{16} = \frac{7}{8}$ $\quad$ $\frac{\square}{8} + \frac{\square}{16} = \frac{7}{8}$

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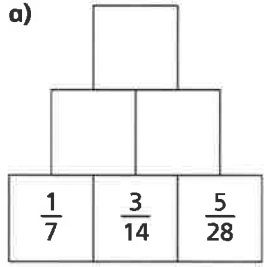
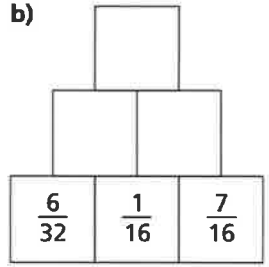
7 Complete the addition pyramids.

a)



b)



c) What fraction is equivalent to both of the fractions at the top of the pyramids?

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Add fractions within 1

1 Complete the additions.

Use the bar models to help you.

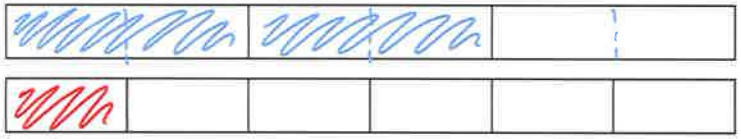
a)

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

b)

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

c)

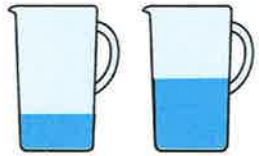


$\frac{2}{3} + \frac{1}{6} = \boxed{\frac{5}{6}}$

2 Match the additions that have the same answer.

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

3 Here are two jugs.



One jug contains $\frac{5}{18}$ litres of water.

The other jug contains $\frac{4}{9}$ litres of water.

How many litres of water are there altogether?

There are $\boxed{\frac{13}{18}}$ litres of water altogether.

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4 a) Complete the calculations.

$\frac{1}{5} + \frac{1}{10} = \frac{3}{10}$	$\frac{1}{16} + \frac{5}{32} = \frac{7}{32}$
$\frac{2}{5} + \frac{1}{10} = \frac{5}{10}$	$\frac{1}{8} + \frac{5}{32} = \frac{9}{32}$
$\frac{3}{5} + \frac{1}{10} = \frac{7}{10}$	$\frac{1}{4} + \frac{5}{32} = \frac{13}{32}$
$\frac{4}{5} + \frac{1}{10} = \frac{9}{10}$	$\frac{1}{2} + \frac{5}{32} = \frac{21}{32}$

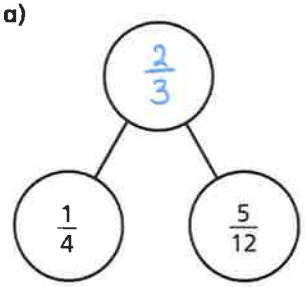
b) Can you spot any patterns? Talk to a partner about it.

c) What calculation would come next in each set?

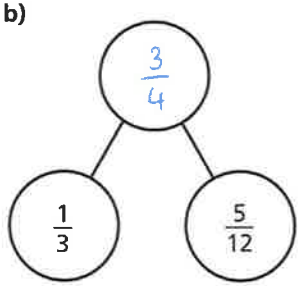
$\frac{5}{5} + \frac{1}{10} = \frac{11}{10} = 1\frac{1}{10}$ $\quad\quad$ $\frac{1}{1} + \frac{5}{32} = 1\frac{5}{32}$

5 Complete the part-whole models.

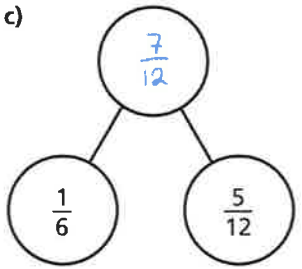
a)



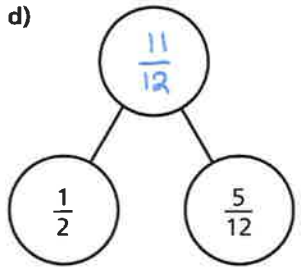
b)



c)



d)



6 $\frac{\square}{8} + \frac{\square}{16} = \frac{7}{8}$

What could the missing numerators be?

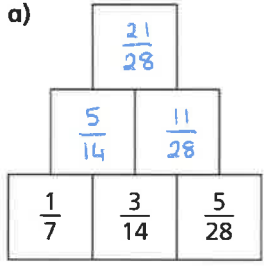
Give six different possibilities.

$\frac{1}{8} + \frac{12}{16} = \frac{7}{8}$ $\quad$ $\frac{3}{8} + \frac{8}{16} = \frac{7}{8}$ $\quad$ $\frac{5}{8} + \frac{4}{16} = \frac{7}{8}$

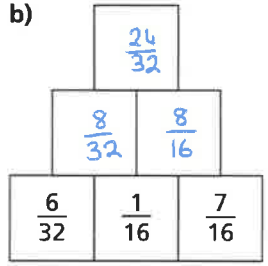
$\frac{2}{8} + \frac{10}{16} = \frac{7}{8}$ $\quad$ $\frac{4}{8} + \frac{6}{16} = \frac{7}{8}$ $\quad$ $\frac{6}{8} + \frac{2}{16} = \frac{7}{8}$

7 Complete the addition pyramids.

a)



b)



c) What fraction is equivalent to both of the fractions at the top of the pyramids?

$\frac{3}{4}$

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Mastery Tuesday 23rd

Add Fractions within 1

Reasoning and Problem Solving

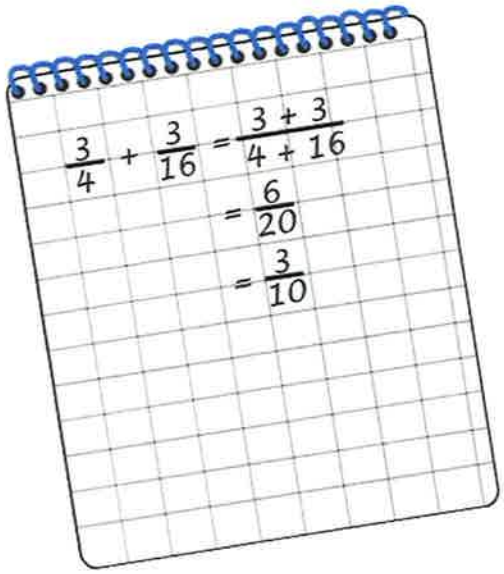
$\frac{5}{16} + \square = \frac{15}{16}$

5

$\square + \frac{7}{10} = \frac{17}{20}$

3

Annie solved this calculation.



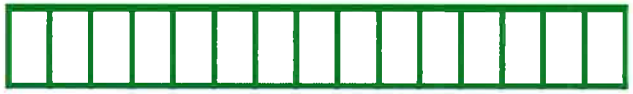
Can you spot and explain her mistake?

Annie is wrong because she has just added the numerators and the denominators. When adding fractions with different denominators you need to find a common denominator.

Two children are solving $\frac{1}{3} + \frac{4}{15}$

Eva starts by drawing this model:

Alex starts by drawing this model:



Can you explain each person's method and how they would complete the question?
Which method do you prefer and why?

Possible answer:
Each child may have started with a different fraction in the calculation.
e.g. Eva has started by shading a third. She now needs to divide each third into five equal parts so there are fifteen equal parts altogether. Eva will then shade $\frac{4}{15}$ and will have $\frac{9}{15}$ altogether.

Wednesday 24th

Add 3 or More Fractions

Notes and Guidance

Children add more than 2 fractions where two denominators are a multiple of the other.

They use a bar model to continue exploring this.

Ensure children always write their working alongside the pictorial representations so they see the clear links.

Mathematical Talk

Can you find a common denominator? Do you need to convert both fractions or just one?

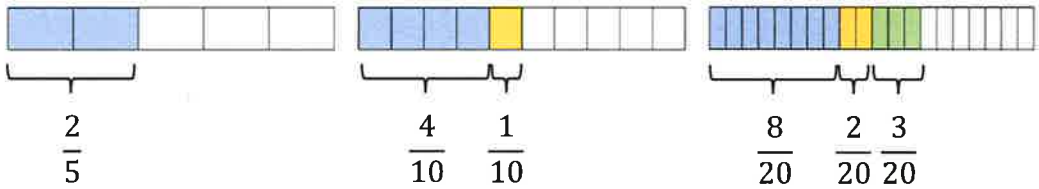
Can you explain Ron's method to a partner? How does Ron's method support finding a common denominator?

Can you draw what Farmer Staneff's field could look like? What fractions could you divide your field into?

Why would a bar model not be efficient for this question?

Varied Fluency

Ron uses a bar model to calculate $\frac{2}{5} + \frac{1}{10} + \frac{3}{20}$



Use a bar model to solve:

$\frac{1}{4} + \frac{3}{8} + \frac{5}{16}$ $\frac{1}{2} + \frac{1}{6} + \frac{1}{12}$

Farmer Staneff owns a field.

He plants carrots on $\frac{1}{3}$ of the field.

He plants potatoes on $\frac{2}{9}$ of the field.

He plants onions on $\frac{5}{18}$ of the field.

What fraction of the field is covered altogether?

Complete the fractions.

$\frac{1}{5} + \frac{\square}{10} + \frac{8}{20} = 1$ $\frac{1}{5} + \frac{\square}{15} + \frac{1}{30} = 1$

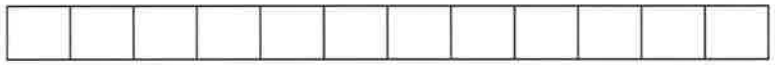
Wednesday 24th

Add 3 or more fractions

1 Complete the additions.

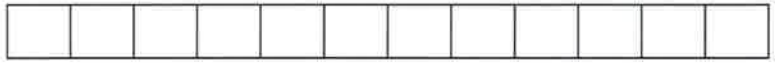
Use the bar models to help you.

a)



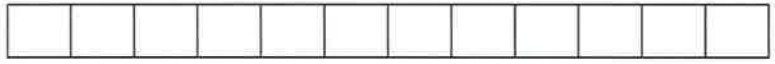
$\frac{1}{2} + \frac{1}{4} + \frac{1}{12} = \square$

b)



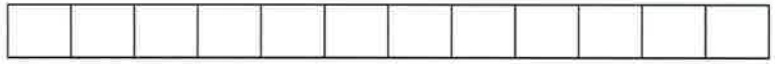
$\frac{1}{2} + \frac{1}{3} + \frac{1}{12} = \square$

c)



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

d)



$\frac{1}{3} + \frac{1}{4} + \frac{1}{6} = \square$

2 Complete the additions.

a) $\frac{1}{5} + \frac{3}{10} + \frac{7}{20} = \square$

b) $\frac{1}{16} + \frac{5}{32} + \frac{3}{8} = \square$

c) $\frac{1}{4} + \frac{5}{24} + \frac{5}{12} = \square$

d) $\frac{3}{16} + \frac{1}{2} + \frac{1}{4} = \square$

e) $\frac{1}{2} + \frac{5}{18} + \frac{1}{9} = \square$

f) $\frac{1}{5} + \frac{8}{35} + \frac{2}{7} = \square$

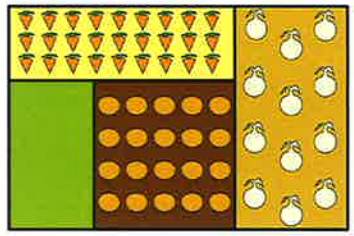
Explain how common multiples help when adding the fractions.

3 Rosie has a vegetable patch.

$\frac{2}{9}$ of the patch contains carrots.

$\frac{5}{18}$ of the patch contains potatoes.

$\frac{1}{3}$ of the patch contains onions.



What fraction of the patch contains carrots, potatoes or onions?

$\square$ of the patch contains carrots, potatoes or onions.

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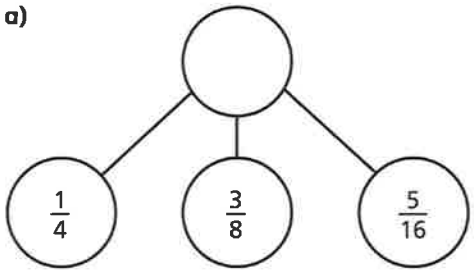
4 Complete the part-whole models.

a)



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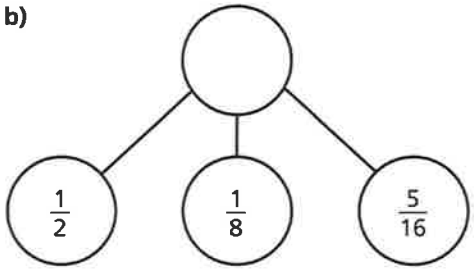
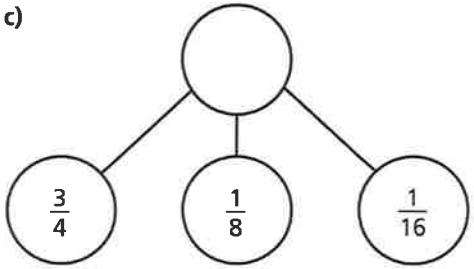


c)



d) Which one of the part-whole models is the odd one out?

Is there more than one answer?

Explain how you know.

5 Fill in the missing numerators.

a) $\frac{1}{8} + \frac{\square}{16} + \frac{3}{8} = \frac{5}{8}$

b) $\frac{1}{8} + \frac{\square}{16} + \frac{3}{8} = \frac{7}{8}$

c) $\frac{1}{4} + \frac{\square}{16} + \frac{3}{8} = \frac{3}{4}$

d) $\frac{1}{8} + \frac{\square}{16} + \frac{1}{4} = \frac{3}{4}$

e) $\frac{1}{8} + \frac{1}{16} + \frac{\square}{16} = \frac{3}{4}$

f) $\frac{1}{4} + \frac{1}{16} + \frac{\square}{16} = \frac{3}{4}$

6 Complete the number square.

The total of each column is $\frac{4}{5}$

The total of each row is $\frac{4}{5}$

$\frac{3}{10}$	$\frac{2}{5}$	
	$\frac{1}{10}$	
$\frac{7}{20}$		

Create your own problem like this for a partner.

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Add 3 or more fractions

1 Complete the additions.

Use the bar models to help you.

a)

$\frac{1}{2} + \frac{1}{4} + \frac{1}{12} = \boxed{\frac{5}{6}}$

b)

$\frac{1}{2} + \frac{1}{3} + \frac{1}{12} = \boxed{\frac{11}{12}}$

c)

$\frac{2}{3} + \frac{1}{6} + \frac{1}{12} = \boxed{\frac{11}{12}}$

d)

$\frac{1}{3} + \frac{1}{4} + \frac{1}{6} = \boxed{\frac{3}{4}}$

2 Complete the additions.

a) $\frac{1}{5} + \frac{3}{10} + \frac{7}{20} = \boxed{\frac{17}{20}}$

b) $\frac{1}{16} + \frac{5}{32} + \frac{3}{8} = \boxed{\frac{19}{32}}$

c) $\frac{1}{4} + \frac{5}{24} + \frac{5}{12} = \boxed{\frac{7}{8}}$

d) $\frac{3}{16} + \frac{1}{2} + \frac{1}{4} = \boxed{\frac{15}{16}}$

e) $\frac{1}{2} + \frac{5}{18} + \frac{1}{9} = \boxed{\frac{8}{9}}$

f) $\frac{1}{5} + \frac{8}{35} + \frac{2}{7} = \boxed{\frac{5}{7}}$

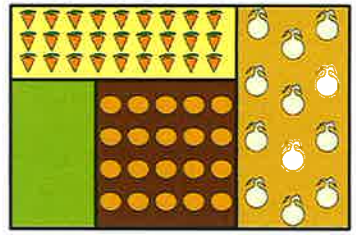
Explain how common multiples help when adding the fractions.

3 Rosie has a vegetable patch.

$\frac{2}{9}$ of the patch contains carrots.

$\frac{5}{18}$ of the patch contains potatoes.

$\frac{1}{3}$ of the patch contains onions.



What fraction of the patch contains carrots, potatoes or onions?

$\boxed{\frac{5}{6}}$ of the patch contains carrots, potatoes or onions.

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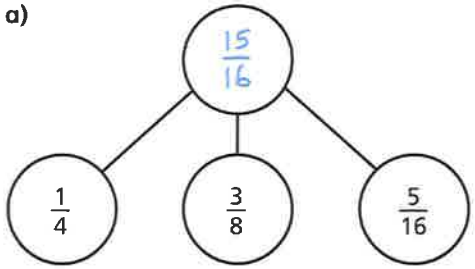
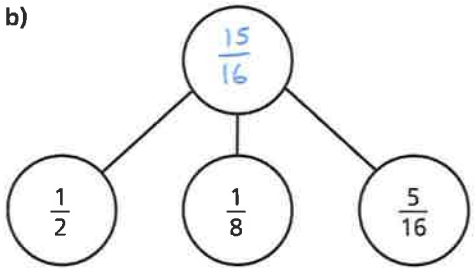
4 Complete the part-whole models.

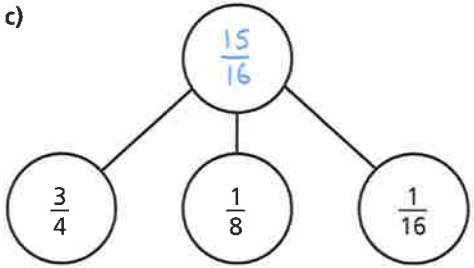
a)



b)



c)



d) Which one of the part-whole models is the odd one out?

Is there more than one answer?

Explain how you know.

Various answers

5 Fill in the missing numerators.

a) $\frac{1}{8} + \frac{\boxed{2}}{16} + \frac{3}{8} = \frac{5}{8}$

b) $\frac{1}{8} + \frac{\boxed{6}}{16} + \frac{3}{8} = \frac{7}{8}$

c) $\frac{1}{4} + \frac{\boxed{2}}{16} + \frac{3}{8} = \frac{3}{4}$

d) $\frac{1}{8} + \frac{\boxed{6}}{16} + \frac{1}{4} = \frac{3}{4}$

e) $\frac{1}{8} + \frac{1}{16} + \frac{\boxed{9}}{16} = \frac{3}{4}$

f) $\frac{1}{4} + \frac{1}{16} + \frac{\boxed{7}}{16} = \frac{3}{4}$

6 Complete the number square.

The total of each column is $\frac{4}{5}$

The total of each row is $\frac{4}{5}$

$\frac{3}{10}$	$\frac{2}{5}$	$\frac{1}{10}$
$\frac{3}{20}$	$\frac{1}{10}$	$\frac{11}{20}$
$\frac{7}{20}$	$\frac{3}{10}$	$\frac{3}{20}$

Create your own problem like this for a partner.

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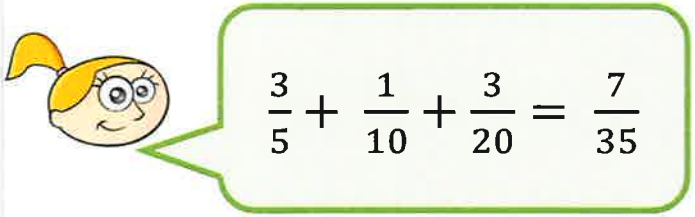
Mastery Wednesday 24th

Add 3 or More Fractions

Reasoning and Problem Solving

Eva is attempting to answer:

$$\frac{3}{5}+\frac{1}{10}+\frac{3}{20}$$



Do you agree with Eva?
Explain why.

Eva is wrong because she has added the numerators and denominators together and hasn't found a common denominator. The correct answer is $\frac{17}{20}$

Jack has added 3 fractions together to get an answer of $\frac{17}{18}$

What 3 fractions could he have added?

Can you find more than one answer?

Possible answers:

$\frac{1}{18}+\frac{4}{18}+\frac{13}{18}$

$\frac{1}{9}+\frac{5}{9}+\frac{5}{18}$

$\frac{1}{6}+\frac{5}{9}+\frac{2}{9}$

$\frac{1}{18}+\frac{1}{6}+\frac{13}{18}$

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

Teaching sheet - Thursday 25th

Add Fractions

Notes and Guidance

Children continue to represent adding fractions using pictorial methods to explore adding two or more proper fractions where the total is greater than 1

Children can record their totals as an improper fraction but will then convert this to a mixed number using their prior knowledge.

Mathematical Talk

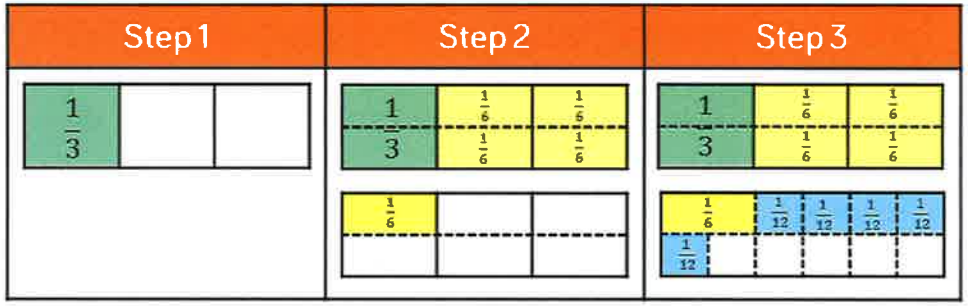
How does the pictorial method support me to add the fractions?

Which common denominator will we use?

How do my times-tables support me to add fractions?

Which representation do you prefer? Why?

Varied Fluency



$\frac{1}{3} + \frac{5}{6} + \frac{5}{12} = 1\frac{7}{12}$

Explain each step of the calculation.

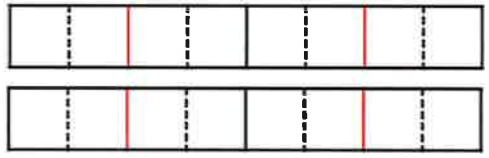
Use this method to help you add the fractions.

Give your answer as a mixed number.

$\frac{2}{3} + \frac{1}{6} + \frac{7}{12}$ $\frac{1}{4} + \frac{7}{8} + \frac{3}{16}$ $\frac{1}{2} + \frac{5}{6} + \frac{5}{12}$

Use the bar model to add the fractions. Record your answer as a mixed number.

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



Draw your own models to solve:

$\frac{5}{12} + \frac{1}{6} + \frac{1}{2}$ $\frac{11}{20} + \frac{3}{5} + \frac{1}{10}$ $\frac{3}{4} + \frac{5}{12} + \frac{1}{2}$

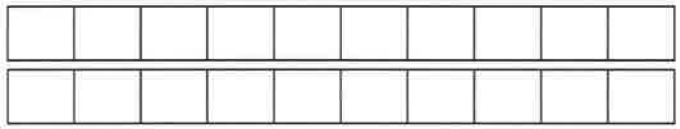
Thursday 25th

Add fractions

1 Complete the calculations.

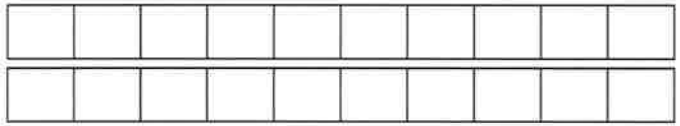
Use the bar models to help you.

a)



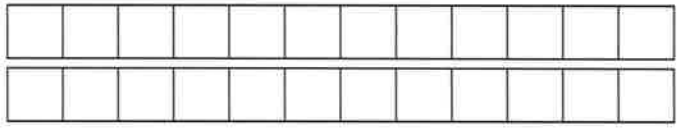
$\frac{1}{2} + \frac{7}{10} = \square = \square$

b)



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

c)



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

2 Complete the additions.

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

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

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

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

e) $\frac{3}{5} + \frac{11}{15} = \square = \square$

f) $\frac{5}{3} + \frac{11}{15} = \square = \square$

3 Match the additions that have the same answer.

$\frac{3}{5} + \frac{9}{20}$	$\frac{16}{20} + \frac{9}{20}$
$\frac{3}{4} + \frac{9}{20}$	$\frac{12}{20} + \frac{9}{20}$
$\frac{4}{5} + \frac{9}{20}$	$\frac{14}{20} + \frac{9}{20}$
$\frac{7}{10} + \frac{9}{20}$	$\frac{15}{20} + \frac{9}{20}$

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4 Dexter has some tins of food. There are four types of food: beans, sweetcorn, soup and tomatoes.

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

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

b) How much do the tins of tomatoes weigh?

5 Complete the addition pyramids.

a)

	$\frac{7}{6}$	
$\frac{2}{3}$		$\frac{1}{3}$

b)

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

c)

		$\frac{1}{2}$
$\frac{1}{5}$		$\frac{3}{10}$

6 What could the three missing numerators be?

$$\frac{\square}{4} + \frac{\square}{12} + \frac{\square}{3} = \frac{13}{12}$$

Give three different possibilities.

$$\frac{\square}{4} + \frac{\square}{12} + \frac{\square}{3} = \frac{13}{12}$$

$$\frac{\square}{4} + \frac{\square}{12} + \frac{\square}{3} = \frac{13}{12}$$

$$\frac{\square}{4} + \frac{\square}{12} + \frac{\square}{3} = \frac{13}{12}$$

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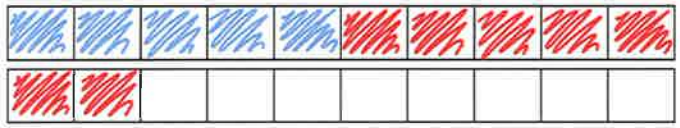
Add fractions

1 Complete the calculations.

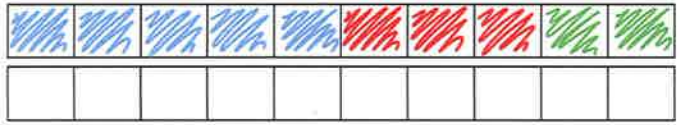
Use the bar models to help you.

a)



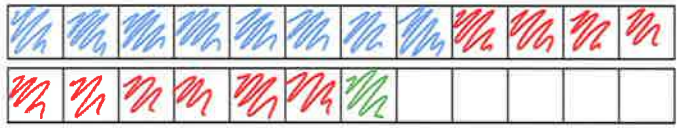
$\frac{1}{2} + \frac{7}{10} = \frac{12}{10} = 1\frac{1}{5}$

b)



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

c)



$\frac{2}{3} + \frac{5}{6} + \frac{1}{12} = \frac{19}{12} = 1\frac{7}{12}$

2 Complete the additions.

a) $\frac{4}{5} + \frac{7}{20} = \frac{23}{20} = 1\frac{3}{20}$

b) $\frac{5}{4} + \frac{7}{20} = \frac{32}{20} = 1\frac{3}{5}$

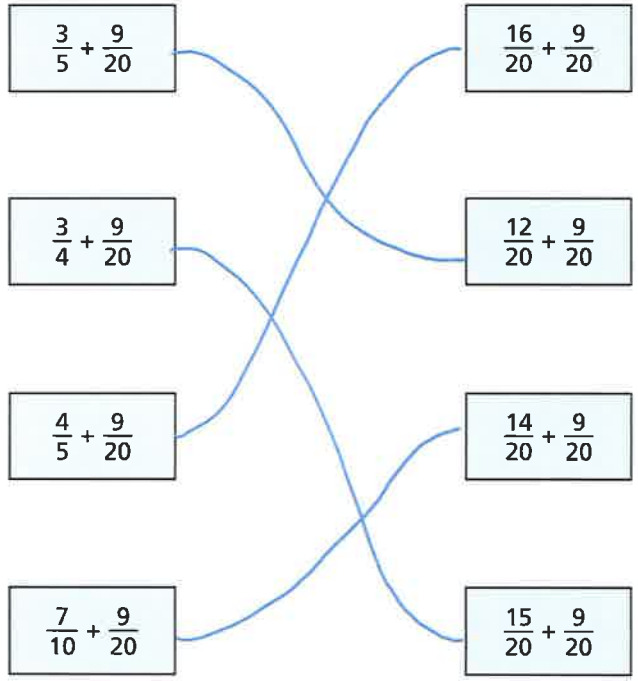
c) $\frac{3}{4} + \frac{5}{12} = \frac{14}{12} = 1\frac{1}{6}$

d) $\frac{4}{3} + \frac{5}{12} = \frac{21}{12} = 1\frac{3}{4}$

e) $\frac{3}{5} + \frac{11}{15} = \frac{20}{15} = 1\frac{1}{3}$

f) $\frac{5}{3} + \frac{11}{15} = \frac{36}{15} = 2\frac{2}{5}$

3 Match the additions that have the same answer.



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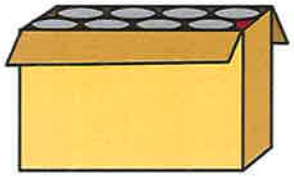
4 Dexter has some tins of food. There are four types of food: beans, sweetcorn, soup and tomatoes.



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

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

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

b) How much do the tins of tomatoes weigh?

$\frac{2}{3}$ kg

5 Complete the addition pyramids.

a)

	2	
$\frac{7}{6}$		$\frac{5}{6}$
$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{3}$

b)

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

c)

	$\frac{9}{10}$	
$\frac{2}{5}$		$\frac{1}{2}$
$\frac{1}{5}$	$\frac{1}{5}$	$\frac{3}{10}$

6 What could the three missing numerators be?

$$\frac{\square}{4} + \frac{\square}{12} + \frac{\square}{3} = \frac{13}{12}$$

Give three different possibilities.

$$\frac{1}{4} + \frac{6}{12} + \frac{1}{3} = \frac{13}{12}$$

$$\frac{2}{4} + \frac{3}{12} + \frac{1}{3} = \frac{13}{12}$$

$$\frac{1}{4} + \frac{2}{12} + \frac{2}{3} = \frac{13}{12}$$

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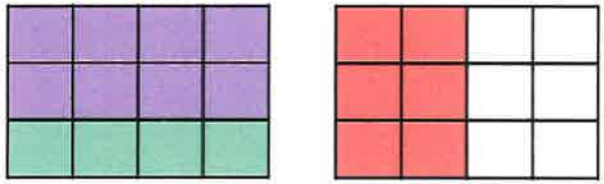
Mastery Thursday 25th

Add Fractions

Reasoning and Problem Solving

Annie is adding three fractions.
She uses the model to help her.



What could her three fractions be?

How many different combinations can you find?

Can you write a number story to represent your calculation?

Possible answer:

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

Other equivalent fractions may be used.

Example story:
Some children are eating pizzas. Jack eats two thirds, Amir eats four twelfths and Dexter eats half a pizza. How much pizza did they eat altogether?

The sum of three fractions is $2\frac{1}{8}$

The fractions have different denominators.

All of the fractions are greater than or equal to a half.

None of the fractions are improper fractions.

All of the denominators are factors of 8

What could the fractions be?

$\frac{1}{2} + \frac{3}{4} + \frac{7}{8}$

Children could be given less clues and explore other possible solutions.

Teaching sheet - Friday 26th

Subtract Fractions

Notes and Guidance

Children subtract fractions with different denominators for the first time, where one denominator is a multiple of the other.

It is important that subtraction is explored as both take away and finding the difference.

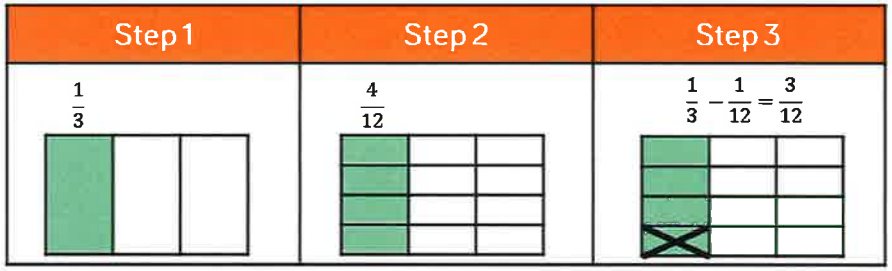
Mathematical Talk

What could the common denominator be?

Can you draw a model to help you solve the problem?

Is it easier to use a take away bar model (single bar model) or a bar model to find the difference (comparison model)?

Varied Fluency

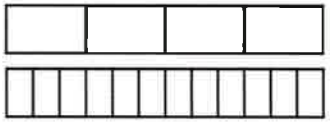


Explain each step of the calculation.

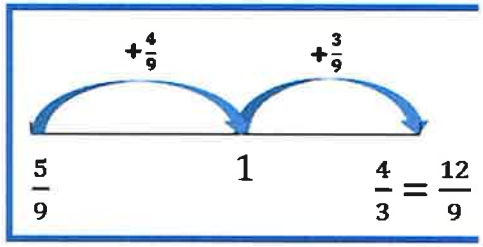
Use this method to help you solve $\frac{5}{6} - \frac{1}{3}$ and $\frac{7}{8} - \frac{5}{16}$

Tommy and Teddy both have the same sized chocolate bar. Tommy has $\frac{3}{4}$ left, Teddy has $\frac{5}{12}$ left.

How much more does Tommy have?



Amir uses a number line to find the difference between $\frac{5}{9}$ and $\frac{4}{3}$



Use this method to find the difference between:

$\frac{3}{4}$ and $\frac{5}{12}$ $\quad\quad$ $\frac{19}{15}$ and $\frac{3}{5}$ $\quad\quad$ $\frac{20}{9}$ and $\frac{4}{3}$

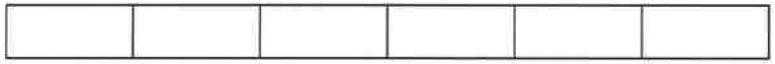
Friday 26th

Subtract fractions

1 Complete the subtractions.

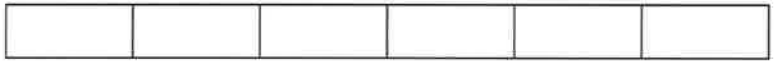
Use the bar models to help you.

a)



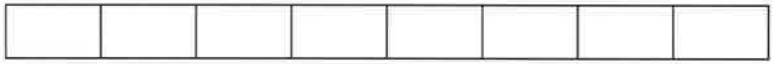
$\frac{5}{6} - \frac{1}{2} = \square$

b)



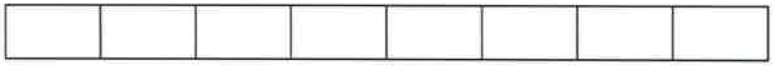
$\frac{5}{6} - \frac{1}{3} = \square$

c)



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

d)



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

2 Match the equivalent calculations.

$\frac{3}{4} - \frac{3}{20}$	$\frac{10}{20} - \frac{3}{20}$
$\frac{4}{5} - \frac{3}{20}$	$\frac{16}{20} - \frac{3}{20}$
$\frac{7}{10} - \frac{3}{20}$	$\frac{15}{20} - \frac{3}{20}$
$\frac{1}{2} - \frac{3}{20}$	$\frac{14}{20} - \frac{3}{20}$

3 Jack walks $\frac{7}{9}$ km to school.

Aisha walks $\frac{2}{3}$ km to school.

How much further does Jack walk than Aisha?

Jack walks $\square$ km further than Aisha.

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4 Complete the subtractions.

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

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

$\frac{3}{8} - \frac{1}{16} = \square$

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

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

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

$\frac{4}{7} - \frac{6}{21} = \square$

$\frac{3}{7} - \frac{8}{21} = \square$

What do you notice?

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?

$\square$ of an hour

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

$\square$ minutes

6 Here are some fraction cards.

$\frac{1}{3}$	$\frac{5}{6}$	$\frac{1}{2}$	$\frac{11}{12}$	$\frac{3}{4}$

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

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

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

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

c) Which two fractions have a difference of $\frac{1}{12}$?

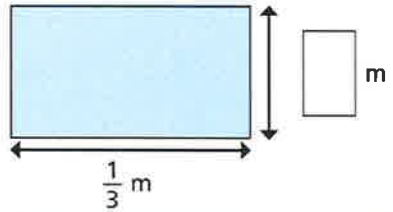
Give two possible pairs.

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

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

7 The perimeter of the rectangle is $\frac{14}{15}$ m.

Work out the missing length.



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Subtract fractions

1 Complete the subtractions.

Use the bar models to help you.

a)

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

b)

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

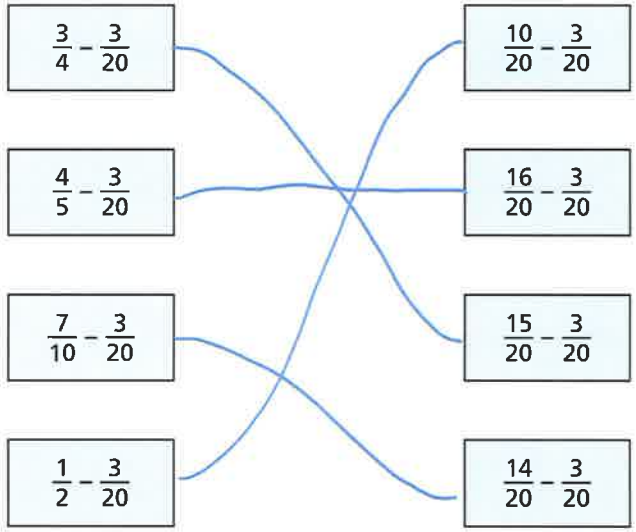
c)

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

d)

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

2 Match the equivalent calculations.



3 Jack walks $\frac{7}{9}$ km to school.

Aisha walks $\frac{2}{3}$ km to school.

How much further does Jack walk than Aisha?

Jack walks $\boxed{\frac{1}{9}}$ km further than Aisha.

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4 Complete the subtractions.

a) $\frac{7}{8} - \frac{1}{16} = \boxed{\frac{13}{16}}$

$\frac{5}{8} - \frac{1}{16} = \boxed{\frac{9}{16}}$

$\frac{3}{8} - \frac{1}{16} = \boxed{\frac{5}{16}}$

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

b) $\frac{6}{7} - \frac{2}{21} = \boxed{\frac{16}{21}}$

$\frac{5}{7} - \frac{4}{21} = \boxed{\frac{11}{21}}$

$\frac{4}{7} - \frac{6}{21} = \boxed{\frac{6}{21}}$

$\frac{3}{7} - \frac{8}{21} = \boxed{\frac{1}{21}}$

What do you notice?

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?

$\boxed{\frac{1}{4}}$ of an hour

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

$\boxed{15}$ minutes

6 Here are some fraction cards.

$\frac{1}{3}$ $\frac{5}{6}$ $\frac{1}{2}$ $\frac{11}{12}$ $\frac{3}{4}$

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

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

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

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

c) Which two fractions have a difference of $\frac{1}{12}$?

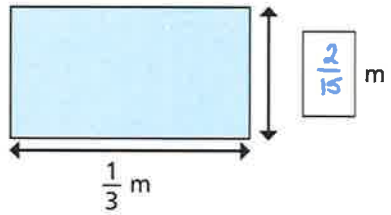
Give two possible pairs.

$\boxed{\frac{11}{12}} - \boxed{\frac{5}{6}} = \frac{1}{12}$

$\boxed{\frac{5}{6}} - \boxed{\frac{3}{4}} = \frac{1}{12}$

7 The perimeter of the rectangle is $\frac{14}{15}$ m.

Work out the missing length.



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Mastery Friday 26th

Subtract Fractions

Reasoning and Problem Solving

Which subtraction is the odd one out?

A $\frac{13}{4} - \frac{3}{8}$

B $\frac{10}{3} - \frac{2}{9}$

C $\frac{23}{7} - \frac{1}{3}$

Explain why.

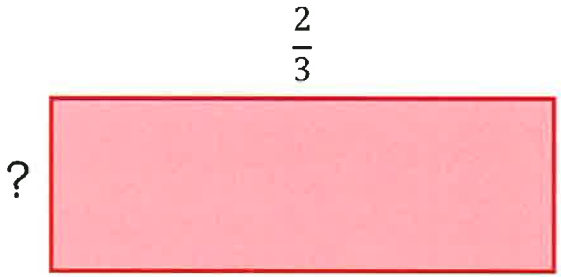
Possible answers:

C is the odd one out because the denominators aren't multiples of each other.

A is the odd one out because the denominators are even.

B is the odd one out because it is the only answer above 3

The perimeter of the rectangle is $\frac{16}{9}$



Work out the missing length.

The missing length is $\frac{2}{9}$

Target your Maths answers Pack 7. Please mark your questions every day. Year 5.

Page 46

A

1 15	**3** 7	**5** 6	**7** 3
2 6	**4** 13	**6** 8	

B

1 8	**3** 13	**5** 14	**7** 19
2 9	**4** 18	**6** 15	

C

1 17	**3** 37	**5** 13
2 17	**4** 21	**6** 17

Page 47

A

1 $17\frac{1}{2}$	**7** $6\frac{3}{4}$	**13** £3·60	**19** £5·60
2 $7\frac{3}{5}$	**8** $14\frac{2}{5}$	**14** £3·75	**20** £9·25
3 $13\frac{2}{4}$	**9** $15\frac{1}{2}$	**15** £8·20	**21** £1·80
4 $5\frac{4}{6}$	**10** $10\frac{5}{6}$	**16** £7·40	**22** 13·5 cm
5 $16\frac{1}{3}$	**11** £7·50	**17** £8·75	**23** 4·4 litres
6 $12\frac{7}{10}$	**12** £4·80	**18** £19·50	**24** £7·75

B

1 $23\frac{1}{4}$	**7** $4\frac{4}{7}$	**13** 27·75	**19** £41·50
2 $5\frac{2}{8}$	**8** $16\frac{8}{10}$	**14** 32·8	**20** £31·25
3 $22\frac{1}{3}$	**9** $8\frac{1}{8}$	**15** 6·5	**21** 9·4 kg
4 $6\frac{4}{9}$	**10** $5\frac{35}{100}$	**16** £31·75	**22** £12·50
5 $8\frac{2}{6}$	**11** 37·5	**17** £27·40	
6 $26\frac{3}{5}$	**12** 45·2	**18** £11·50	

C

1 101	**8** 103	**15** 13·3
2 149	**9** 29·75	**16** 17·5
3 62	**10** 18·2	**17** 0·375 litres
4 136	**11** 28·7	**18** £222·40
5 134	**12** 14·5	**19** £1·50
6 77	**13** 37·3	
7 273	**14** 15·8	

Page 48

A

1 1136	**6** 4125	**11** 29 r 3	**16** 28 r 2
2 1932	**7** 1842	**12** 67 r 1	**17** 56
3 2403	**8** 3120	**13** 25 r 5	**18** 43 r 4
4 1516	**9** 3444	**14** 46 r 3	**19** 37 r 2
5 1043	**10** 1872	**15** 39	**20** 78 r 1

B

1 ~~19 580~~ 20 902	**6** 10 276	**11** 168	**16** 137 r 7
2 16 980	**7** 73 164	**12** 657 r 1	**17** £20 802
3 27 834	**8** 17 586	**13** 379 r 4	**18** 282 m
4 40 768	**9** 186 r 4	**14** 216 r 3	**19** 164
5 30 695	**10** 156 r 9	**15** 137	**20** 8975

C

1 110 571	**6** 294 156	**11** 1648	**16** 865 r 4
2 74 365	**7** 189 455	**12** 3894 r 2	**17** 370 864
3 582 406	**8** 166 284	**13** 379 r 7	**18** £1537
4 573 762	**9** 457 r 6	**14** 1985	**19** £233 433
5 139 912	**10** 576 r 1	**15** 796 r 3	

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A

1 8·7	**4** 160	**7** 4	**10** 32
2 2·7	**5** 1·3	**8** 33	**11** 56
3 18	**6** 2·5	**9** 44	**12** 90 ml

B

1 7	**6** 9·8	**10** 12
2 £6·81	**7** 0·47	**11** 45 miles
3 132	**8** 12	**12** 130 g in right pan
4 10	**9** 18 hard, 22 soft	
5 7		

C

1 0·028	**4** 2·8	**7** 0·48	**10** 174
2 80	**5** 12·1	**8** 5·28	**11** 200
3 0·85	**6** 3·35	**9** 7	**12** £10·70

Page 50

A

1 91	**3** 8	**5** 33
2 46	**4** 240 g	**6** 55p

B

1 576	**3** £249	**5** 30p
2 580	**4** 1·9 kg, 2·7 kg	**6** 88

C

1 £36·75	**3** 144 litres	**5** 21221
2 150	**4** £4499·10	**6** 144

Page 51

A

1 67	**3** 62	**5** 73
2 6	**4** 18000	

B

1 £360	**3** 716	**5** 252
2 102	**4** £1·80	

C

1 49	**3** £104	**5** £90
2 90 litres	**4** 30 m	

Page 52

A

1 17, 19	**5** 5, 6, 7	**9** 4, 5	**13** 25
2 35, 45	**6** 9, 10, 11	**10** 6, 7	**14** 12
3 5, 12	**7** 16, 17, 18	**11** 9, 10	
4 6, 16	**8** 28, 29, 30	**12** 11, 12	

B

1 64	**5** 19	**9** 7
2 59	**6** 112 or 400	**10** 3
3 43	**7** 50	**11** 48
4 49	**8** 14	**12** 9

C

1 $2\frac{1}{12}$	**7** $1\frac{3}{40}$	**13** $\frac{19}{20}$
2 $2\frac{7}{10}$	**8** $1\frac{7}{12}$	**14** $1\frac{5}{6}$
3 $3\frac{3}{6}$	**9** $1\frac{2}{10}$	**15** $\frac{19}{20}$
4 $2\frac{2}{12}$	**10** $\frac{7}{9}$	**16** $\frac{8}{15}$
5 $1\frac{3}{10}$	**11** $1\frac{3}{8}$	**17** $\frac{13}{20}$
6 $1\frac{5}{12}$	**12** $3\frac{11}{12}$	**18** $\frac{5}{6}$

Page 61

A

1 8	**6** 6	**11** 5	**16** 9
2 6	**7** 3	**12** 8	**17** 11
3 7	**8** 4	**13** 2	**18** 30
4 5	**9** 9	**14** 7	**19** 5
5 8	**10** 9	**15** 12	**20** 10

B

1 $2\frac{1}{10}$	**10** $3\frac{5}{8}$	**19** $3\frac{5}{7}$	**28** $8\frac{1}{4}$
2 $8\frac{7}{10}$	**11** $7\frac{3}{8}$	**20** $5\frac{7}{12}$	**29** $9\frac{3}{8}$
3 $11\frac{9}{10}$	**12** $8\frac{7}{8}$	**21** $6\frac{1}{2}$	**30** $11\frac{2}{3}$
4 $4\frac{3}{10}$	**13** $6\frac{3}{9}$	**22** $12\frac{3}{4}$	**31** $8\frac{4}{7}$
5 $7\frac{3}{5}$	**14** $10\frac{5}{9}$	**23** $2\frac{8}{11}$	**32** $7\frac{5}{12}$
6 $4\frac{1}{5}$	**15** $2\frac{3}{9}$	**24** $7\frac{5}{6}$	**33** $9\frac{1}{6}$
7 $5\frac{2}{5}$	**16** $7\frac{7}{9}$	**25** $9\frac{1}{3}$	**34** $6\frac{7}{10}$
8 $9\frac{4}{5}$	**17** $4\frac{1}{6}$	**26** $4\frac{4}{12}$	**35** $5\frac{6}{9}$
9 $5\frac{1}{8}$	**18** $5\frac{2}{3}$	**27** $11\frac{1}{2}$	**36** $11\frac{3}{11}$

C

1 25	**9** $5\frac{5}{6}$	**17** $7\frac{3}{11}$	**25** $12\frac{1}{12}$
2 23	**10** $8\frac{2}{5}$	**18** $6\frac{6}{9}$	**26** $12\frac{3}{8}$
3 93	**11** $7\frac{1}{3}$	**19** $9\frac{1}{5}$	**27** $9\frac{1}{3}$
4 17	**12** $2\frac{1}{10}$	**20** $17\frac{1}{10}$	**28** $22\frac{5}{10}$
5 35	**13** $5\frac{5}{8}$	**21** $8\frac{6}{7}$	**29** $8\frac{8}{9}$
6 101	**14** $4\frac{4}{7}$	**22** $8\frac{8}{11}$	**30** $9\frac{6}{11}$
7 31	**15** $12\frac{3}{4}$	**23** $15\frac{1}{5}$	**31** $12\frac{1}{7}$
8 35	**16** $8\frac{3}{12}$	**24** $15\frac{3}{4}$	**32** $2\frac{97}{100}$

Page 62

A

1 16	**3** 100	**5** £63
2 48 mins.	**4** 27	**6** 20 cm, 40 cm

B

1 200 ml	**3** 150 g	**5** 6
2 42	**4** 45	**6** 75 g

C

1 80	**3** 132	**5** 2·5 m
2 92	**4** £750	**6** 50 g

Page 63

A

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

B

1 $8\frac{1}{4}$	**5** $5\frac{1}{2}$	**9** 12	**13** 34
2 $46\frac{1}{2}$	**6** 32	**10** $8\frac{3}{4}$	**14** $19\frac{1}{2}$
3 $9\frac{2}{5}$	**7** $10\frac{2}{7}$	**11** $8\frac{2}{3}$	**15** $2\frac{8}{11}$
4 $10\frac{4}{5}$	**8** $5\frac{1}{5}$	**12** $8\frac{2}{5}$	**16** 48

C

1 45	**5** 90	**9** $25\frac{2}{3}$	**13** $33\frac{2}{3}$
2 $17\frac{1}{3}$	**6** $39\frac{1}{2}$	**10** $34\frac{2}{5}$	**14** 58
3 $39\frac{1}{2}$	**7** $9\frac{1}{7}$	**11** $16\frac{4}{5}$	**15** $19\frac{1}{6}$
4 $13\frac{1}{5}$	**8** $31\frac{1}{3}$	**12** $61\frac{1}{2}$	**16** $61\frac{1}{5}$

Page 64

A

1 6	**6** 4	**11** 5	**16** 54
2 7	**7** 2	**12** 15	**17** 7
3 5	**8** 10	**13** 8	**18** 35
4 9	**9** 3	**14** 16	
5 5	**10** 11	**15** 6	

B

1 12	**8** 18	**15** 20	**22** 170
2 24	**9** 30	**16** 12	**23** 126
3 18	**10** 40	**17** 75	**24** 95
4 50	**11** 8	**18** 40	**25** 72
5 16	**12** 36	**19** 108	**26** 84
6 21	**13** 60	**20** 48	
7 63	**14** 21	**21** 57	

C

1 21	**8** 1200	**15** 5500	**22** 156
2 7·2	**9** 10·5	**16** 0·48	**23** 800
3 840	**10** 180	**17** 990	**24** 135
4 189	**11** 7·2	**18** 63	**25** 128
5 150	**12** 1500	**19** 350	**26** 217
6 1·2	**13** 2·8	**20** 160	
7 400	**14** 200	**21** 4500	

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A

1 2·64	**13** $3\frac{5}{10}$	**25** $1 + \frac{2}{10} + \frac{8}{100}$
2 0·32	**14** $\frac{92}{100}$	**26** $\frac{7}{10} + \frac{5}{100}$
3 5·17	**15** $1\frac{38}{100}$	**27** $3 + \frac{6}{10} + \frac{1}{100}$
4 9·05	**16** $5\frac{1}{10}$	**28** $8 + \frac{1}{10} + \frac{4}{100}$
5 0·23	**17** $4\frac{67}{100}$	**29** $2 + \frac{4}{10} + \frac{2}{100}$
6 6·18	**18** $\frac{4}{10}$	**30** $\frac{8}{10} + \frac{6}{100}$
7 4·71	**19** $2\frac{34}{100}$	**31** $10 + \frac{5}{10} + \frac{9}{100}$
8 0·26	**20** $\frac{82}{100}$	**32** $4 + \frac{9}{10} + \frac{3}{100}$
9 7·48	**21** $6\frac{7}{10}$	**33** $\frac{1}{10} + \frac{6}{100}$
10 3·45	**22** $9\frac{56}{100}$	**34** $6 + \frac{7}{100}$
11 0·99	**23** $\frac{9}{10}$	**35** $\frac{3}{10} + \frac{9}{100}$
12 15·01	**24** $7\frac{15}{100}$	**36** $24 + \frac{2}{10} + \frac{5}{100}$

Page 15

A

1 2492	**5** 8478	**9** 8772	**13** 8414
2 3844	**6** 9660	**10** 8952	**14** 7441
3 7379	**7** 6168	**11** 6580	
4 3915	**8** 4936	**12** 7673	

B

1 59 534	**5** 84 071	**9** 57 647	**13** 71 449
2 52 280	**6** 91 285	**10** 42 100	**14** £61 033
3 83 869	**7** 21 504	**11** 74 445	
4 40 285	**8** 91 932	**12** 72 122	

C

1 513 554	**5** 817 210	**9** 975 136	**13** 747 303
2 541 722	**6** 945 462	**10** 1 035 060	**14** 741 082
3 922 401	**7** 710 232	**11** 584 645	
4 444 185	**8** 581 943	**12** 1 040 711	

Page 16

A

1 1328	**5** 1948	**9** 5565	**13** 1047
2 962	**6** 3244	**10** 4823	**14** £6238
3 2508	**7** 2548	**11** 3908	
4 3664	**8** 4179	**12** 5342	

B

1 13 371	**5** 27 208	**9** 38 477	**13** £79 288
2 12 125	**6** 18 729	**10** 48 735	**14** 16 436
3 5367	**7** 57 895	**11** 45 456	
4 17 511	**8** 49 861	**12** 18 956	

C

1 109 468	**5** 182 696	**9** 91 776	**13** 448 678
2 206 374	**6** 63 998	**10** 44 085	**14** 192 704
3 594 247	**7** 155 366	**11** 281 288	
4 164 929	**8** 149 878	**12** 383 856	

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A

1 4623	**5** 9236	**9** 2865	**13** 6749 km²
2 6262	**6** 7630	**10** 2213	
3 9006	**7** 1506	**11** 3755	
4 5443	**8** 2875	**12** 4785	

B

1 56 001	**5** 41 551	**9** 15 974	**13** 51 045
2 84 327	**6** 80 291	**10** 18 946	**14** 33 685
3 59 531	**7** 52 769	**11** 58 657	
4 88 154	**8** 3619	**12** 9967	

C

1 260 483	**5** 709 135	**9** 365 838	**13** £915 811
2 605 127	**6** 704 704	**10** 284 929	**14** 166 684
3 991 270	**7** 187 834	**11** 93 768	
4 432 241	**8** 186 595	**12** 654 578	

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A

1 470	**5** 8000	**9** 180	**13** 90
2 750	**6** 8100	**10** 450	**14** 40
3 120	**7** 1800	**11** 400	**15** 60
4 230	**8** 5500	**12** 420	**16** 70

B

1 1210	**5** 13 000	**9** 910	**13** 10 800
2 1640	**6** 16 500	**10** 900	**14** 28 800
3 450	**7** 5600	**11** 220	**15** 1200
4 2280	**8** 31 700	**12** 120	**16** 800

C

1 2430	**5** 23 200	**9** 46 200	**13** 120+
2 3710	**6** 39 000	**10** 53 400	**14** 140+
3 2680	**7** 24 300	**11** 55 600	**15** 1300+
4 3550	**8** 18 300	**12** 23 500	**16** 110+

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A

1 30	**8** 40	**15** 400	**22** 40
2 60	**9** 70	**16** 700	**23** 40
3 30	**10** 90	**17** 400	**24** 30
4 80	**11** 200	**18** 800	**25** 800
5 50	**12** 500	**19** 300	**26** 600
6 60	**13** 300	**20** 1000	**27** 500
7 100	**14** 700	**21** 60	**28** 400

B

1 289	**5** 356	**9** 5268	**13** 5536
2 519	**6** 918	**10** 5899	**14** 10 682
3 244	**7** 61 r 2	**11** 1816	**15** 527
4 616	**8** 31 r 4	**12** 5612	**16** 752 r 2

C

1 81·25	**6** 46·68 + 25·87	**11** 472·6
2 23·56	**7** 527·2	**12** 580·9
3 579·5 + 364·7	**8** 935·7	**13** 44·56
4 82·53 − 17·84	**9** 84·62	**14** 34·27
5 641·6 − 362·9	**10** 103·09	

Page 20

A

1 a) 25, 75	**4** 62 + 35	**9** 123 − 58
b) 37, 63	**5** 78 + 48	**10** 134 − 39
c) 64, 136	**6** 94 + 53	**11** 162 − 88
2 284	**7** 85 + 27	
3 155	**8** 76 − 43	

B

1 a) 172, 328 **b)** 331, 669 **c)** 48, 102

2 481

3 965

4 247 + 128	**5** 459 + 365	**6** 871 − 259	**7** 518 − 176

C

1 a) 3907, 6093 **b)** 891, 1609 **c)** 93, 225

2 1575

3 3540

4 2547 + 1396	**5** 3762 + 2549	**6** 5741 − 1928	**7** 8293 − 5387

Page 21

A

1 19 **2** 35 **3** 369 **4** 433 **5** 89

B

1 162 **2** 413 **3** 287 **4** 251

C

1 4425 **2** £4624 **3** 3287 **4** 20 404

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A

1 A 17, B 12, C 19 **2** D 11, E 4, F 6 **3** G 12, H 9, I 4 **4** J 11, K 7, L 2

B

1 M 16, N 19, O 13 **2** P 8, Q 15, R 18 **3** S 17, T 12, U 17 **4** V 14, W 21, X 10

C

1 C 31, D 23, E 27 **2** F 42, G 35, H 28 **3** K 22, L 59, M 39 **4** Q 27, R 40, S 46

Page 23

A

1

3	16	5
10	8	6
11	0	13

2

7	15	14
19	12	5
10	9	17

3

25	3	17
7	15	23
13	27	5

4

22	21	14
11	19	27
24	17	16

5

10	38	18
30	22	14
26	6	34

B

1

4	17	14	3
11	6	9	12
7	10	13	8
16	5	2	15

2

9	4	14	7
6	15	1	12
3	10	8	13
16	5	11	2

3

21	10	16	7
8	15	13	18
11	20	6	17
14	9	19	12

4

6	19	16	5
13	8	11	14
9	12	15	10
18	7	4	17

C

1

2	−3	4
3	1	−1
−2	5	0

2

0	3	−6
−7	−1	5
4	−5	−2

3

−2	−9	2
1	−3	−7
−8	3	−4

4

3	−2	−1
−4	0	4
1	2	−3

5

−7	6	−5
0	−2	−4
1	−10	3

Page 24

A

1 3, 6, 9, 12, 15, 18
2 4, 8, 12, 16, 20, 24
3 6, 12, 18, 24, 30, 36
4 9, 18, 27, 36, 45, 54
5 Yes **6** No **7** Yes **8** Yes **9** Yes **10** No **11** Yes **12** Yes **13** 151 **14** 74 **15** 84 **16** 39

B

1 7, 14, 21, 28, 35, 42
2 12, 24, 36, 48, 60, 72
3 15, 30, 45, 60, 75, 90
4 99, 198, 297, 396, 495, 594
5 True **6** False **7** False **8** True **9** True **10** True **11** False **12** False **13** True **14** False **15** False **16** True **17** 160 **18** 76 **19** 156 **20** 110

C

2 a) 534, 267, 948, 882, 171
b) 534, 948, 882
3 258, 372, 378, 528, 582
732, 738, 852, 2358, 2538
3258, 3528, 3582, 3852, 5238
5328, 5382, 5832, 8352, 8532

Page 25

A

1 8 **2** 5 **3** 4 **4** 9 **5** 8 **6** 3 **7** 10 **8** 8 **9** 7 **10** 6 **11** 50 **12** 1

13 1, 2, 4, 8
14 1, 5, 25
15 1, 2, 11, 22
16 1, 2, 3, 6, 9, 18
17 1, 3, 5, 15
18 1, 2, 4, 8, 16, 32
19 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60
20 1, 2, 3, 4, 6, 9, 12, 18, 36

Isle Pack 7 English

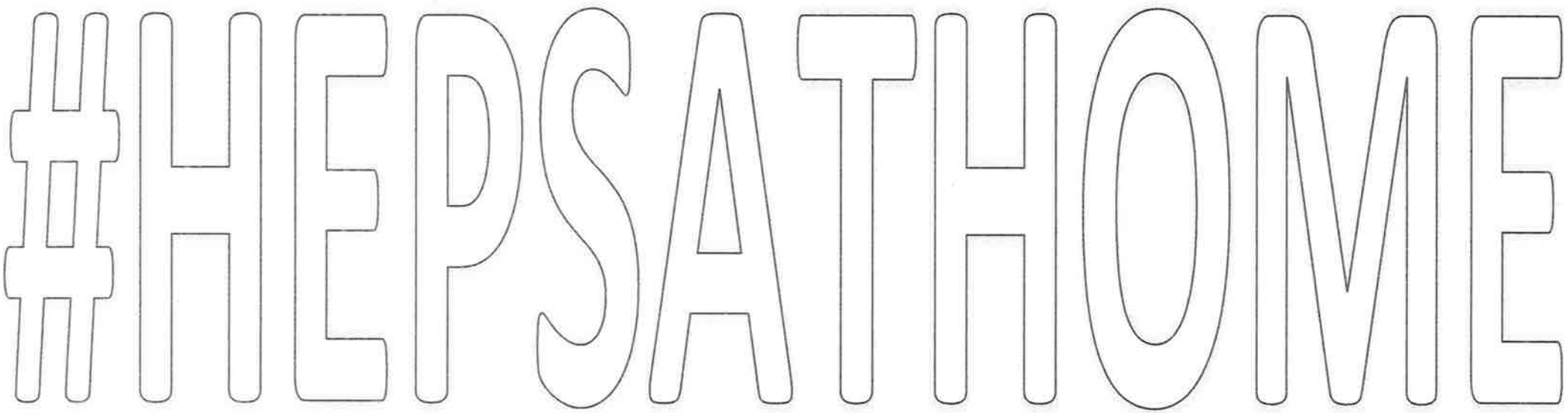
Mon 22nd Feb	
Reading	Read one of your assigned books on GetEpic. They are differentiated to match your Reading Range on AR. Class code: teq0763 Take the week to read it through and then have a go at the quiz on Friday. Remember, if the book is shorter, you will need to read it more than once to remember the facts or story! You can also read your own book at home, there are lots to pick from on epic.
Spelling	Practise these spellings: **Year 4:** acted acting react reacting reaction activate activation deactivate actor actress activist **Year 5:** available adorable considerable considerably probably understandable horrible horribly incredible incredibly possible sensibly
Writing	You will be starting the Wonderful Wizards unit of work. Read or listen to the model text on the wonderful world of wizards (p.4) before completing the activities What Do Words Mean? (p.5) and Which Synonym? (p.6)

Tues 23rd Feb	
Reading	Read one of your assigned books on GetEpic. They are differentiated to match your Reading Range on AR. Class code: teq0763 Take the week to read it through and then have a go at the quiz on Friday. Remember, if the book is shorter, you will need to read it more than once to remember the facts or story! You can also read your own book at home, there are lots to pick from on epic.
Spelling	Practise your spellings from yesterday, revisiting those you got incorrect. **Year 4:** acted acting react reacting reaction activate activation deactivate actor actress activist **Year 5:** available adorable considerable considerably probably understandable horrible horribly incredible incredibly possible sensibly
Handwriting	Select some of the definitions of the above spellings and copy in your neatest handwriting. I would select spellings/definitions you do not know very well.
Writing	Complete the activities Finish The Sentence (p.7) and Wizard Words (p.8/9)

Weds 24th Feb	
Reading	Read one of your assigned books on GetEpic. They are differentiated to match your Reading Range on AR. Class code: teq0763 Take the week to read it through and then have a go at the quiz on Friday. Remember, if the book is shorter, you will need to read it more than once to remember the facts or story! You can also read your own book at home, there are lots to pick from on epic.
Spelling	Practise your common exception spellings in the back of your planner. Revisit any that you have got incorrect or do not understand what they mean. Remember that we would have moved on to the next column!
Writing	Complete the activities Wizard Comprehension (p10) and The 'fill the gaps' Game (p.12). You must read page 11 before completing the activity on page 12.

Thurs 25th Feb	
Reading	Read one of your assigned books on GetEpic. They are differentiated to match your Reading Range on AR. Class code: teq0763 Take the week to read it through and then have a go at the quiz on Friday. Remember, if the book is shorter, you will need to read it more than once to remember the facts or story! You can also read your own book at home, there are lots to pick from on epic.
Spelling	**Year 4:** How many other words can you find that contain the word 'act' in the beginning, middle or end? Make a list in your English books and don't repeat the same words that are in your spelling list. **Year 5:** How many other words can you find which use the suffixes able, ably, ible, ibly,? Make a list in your English books and don't repeat the same words that are in your spelling list.
Writing	Complete the activities Weasel Phrases (p.13) and Bossy Verbs, Leading Questions (p.14)

Fri 26th Feb	
Reading	Read one of your assigned books on GetEpic. They are differentiated to match your Reading Range on AR. Class code: teq0763 Take the week to read it through and then have a go at the quiz on Friday. Remember, if the book is shorter, you will need to read it more than once to remember the facts or story! You can also read your own book at home, there are lots to pick from on epic.
Spelling/ Handwriting	Practise these spellings in neatly joined handwriting before asking a parent/guardian to test you. **Year 4:** acted acting react reacting reaction activate activation deactivate actor actress activist **Year 5:** available adorable considerable considerably probably understandable horrible horribly incredible incredibly possible sensibly
Writing	Complete the activities Alliteration (p.15) and Design Your School (p.16).

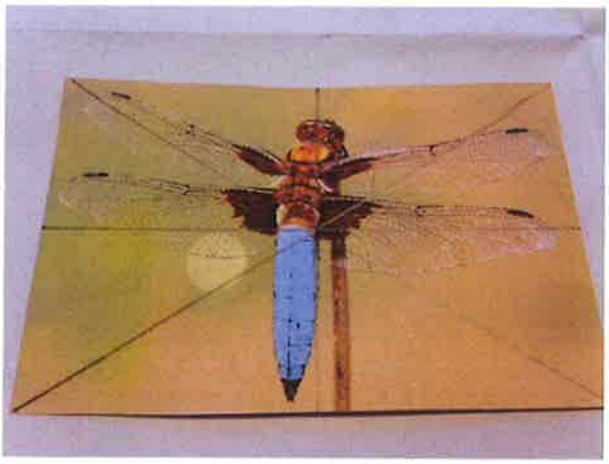

#HEPSATHOME

Wednesday 24th

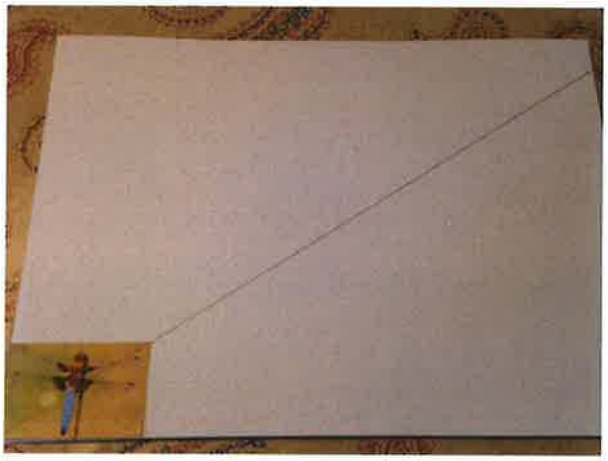
Invertebrates

Wednesday 24th

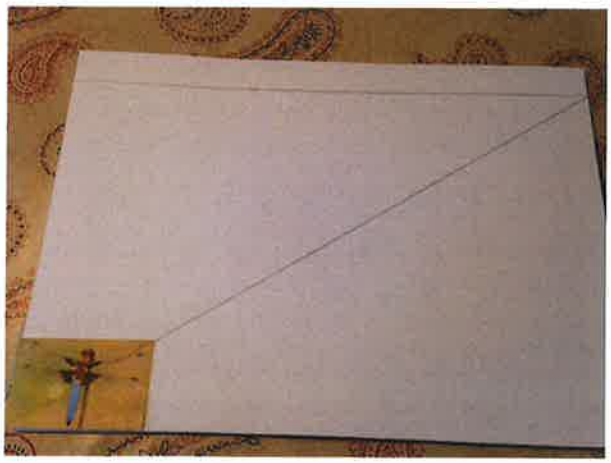
How to expand an image.



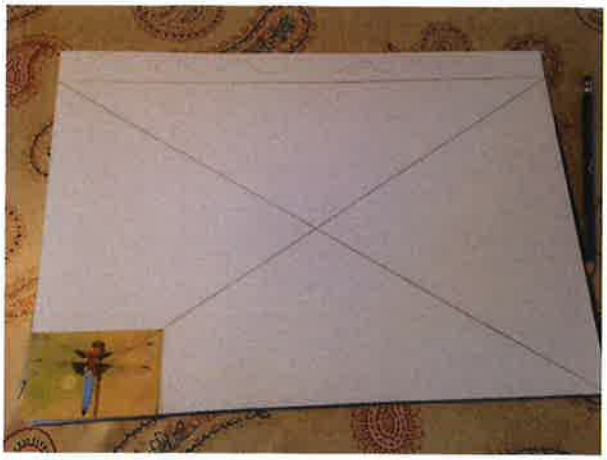
1. Choose a close-up image of an insect. Draw 4 straight lines – diagonally corner to corner, vertically through the centre point and horizontally through the centre point.



2. Place the image in the corner of a large piece of drawing paper (the bigger the better). Using a large ruler, continue the diagonal line until you come to the edge of the large paper.



3. As shown, draw a line from the end of the diagonal line across the paper to create a new edge.



4. Faintly draw the other lines on the large sheet.

5. Cut along all of the lines to create 8 triangles. Mark them on the back to indicate their position. Give each triangle to a different child. They will need to coordinate with the other children who have the surrounding triangles to make sure they cross the joins at the same place. Chn carefully draw the details of the insect within their triangle.

6. Encourage chn to choose how to colour the details in. Join the triangles and display the large insect.

7. Alternatively, chn can work independently to create their own large scale image. They should follow steps 1-4, then draw the details of each triangle independently.