15.2.22

LO: To subtract 2 mixed numbers.

I know that mixed numbers are comprised of whole numbers and remaining fractions.

I can subtract 2 mixed numbers.

I understand the relationship between mixed numbers and improper fractions.

Flashback 4.

Flashback 4

Year 5 | Wee

1) Work out $3\frac{1}{2} + 2\frac{1}{4}$



- 2) Add $\frac{3}{7}$ and $\frac{5}{14}$
- 3) Change $5\frac{3}{7}$ to an improper fraction.
- 4) What number is 600 less than 4,371?

															Year 5
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										1)	\\/amle =	out $3\frac{1}{2}$ +	2		
										''	WORK C	2	4	\cup	
										2)	4113	and $\frac{5}{14}$		\cap	
										2)	Add 7	ana H		U	
										2)	OI.	_3,		er fraction	
										3)	Change	7 to an	ımprope	er traction	n. [
										4)	What r	number is	600 less	s than 4,37	71?
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GET READY

1)
$$4-1=$$

2)
$$\frac{7}{12} - \frac{1}{6} =$$

3)
$$4\frac{7}{12}-1\frac{1}{6}=$$

4)
$$\frac{55}{12} - \frac{14}{12} =$$

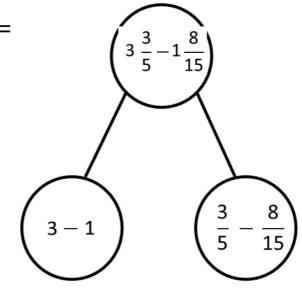
5) What did you notice about questions 3) and 4)?

LET'S LEARN

$$3\frac{3}{5}-1\frac{8}{15}=$$

$$3-1 =$$

$$\frac{3}{5} - \frac{8}{15} =$$



$$3\frac{3}{5} - 1\frac{8}{15} =$$

$$3\frac{9}{15} - 1\frac{8}{15}$$

We need to turn these mixed numbers into improper fractions.

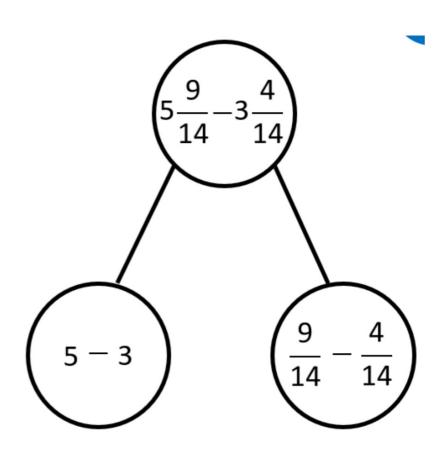
Then, subtract using the bar model. Write the answer as a mixed number.



Use the whole-part model method to subtract these mixed numbers.

Don't forget to convert first!

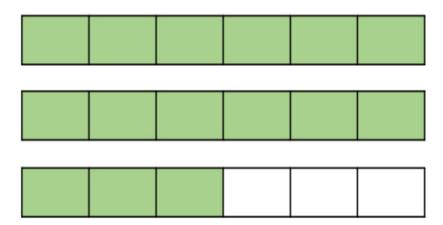
1)
$$5\frac{9}{14} - 3\frac{2}{7} =$$



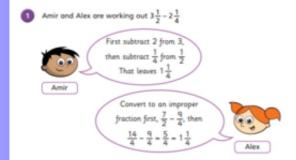
Use the bar model method to subtract these mixed numbers.

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

The conversion has been done for you, but now these mixed numbers need to be improper fractions!



Have a go at questions 1 and 2.



Whose method do you prefer?

Use your preferred method to complete the subtractions.

a)
$$4\frac{4}{5} - 2\frac{3}{10} =$$

c)
$$16\frac{1}{2} - 5\frac{1}{4} =$$

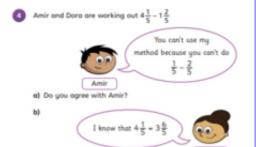
b)
$$3\frac{5}{8} - 1\frac{1}{4} =$$

d)
$$10\frac{5}{6} - 5\frac{5}{12} =$$

3 Car A travels for 15 1/4 miles.



How much further does Car B travel than Car A?



How does this help you to work out the subtraction

c) Complete the calculation.

Dexter is subtracting fractions.



Explain the mistake that Dexter has made

Extension activity:

There are three colours of dog biscuits in a bag of dog food: red, brown and orange.

The total mass of the dog food is 7 kg.

The mass of red biscuits is $3\frac{3}{4}$ kg and the mass of the brown biscuits is $1\frac{7}{16}$ kg.

What is the mass of orange biscuits?

Rosie has 20

5 B's

Brair

Book

Boan

Buda

Boss

Annie has 6

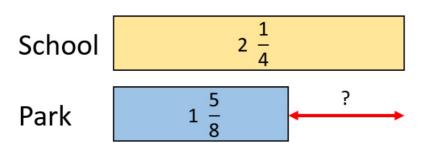
How much rit

How much rik altogether?

From Jack's house to school is $2\frac{1}{4}$ km.

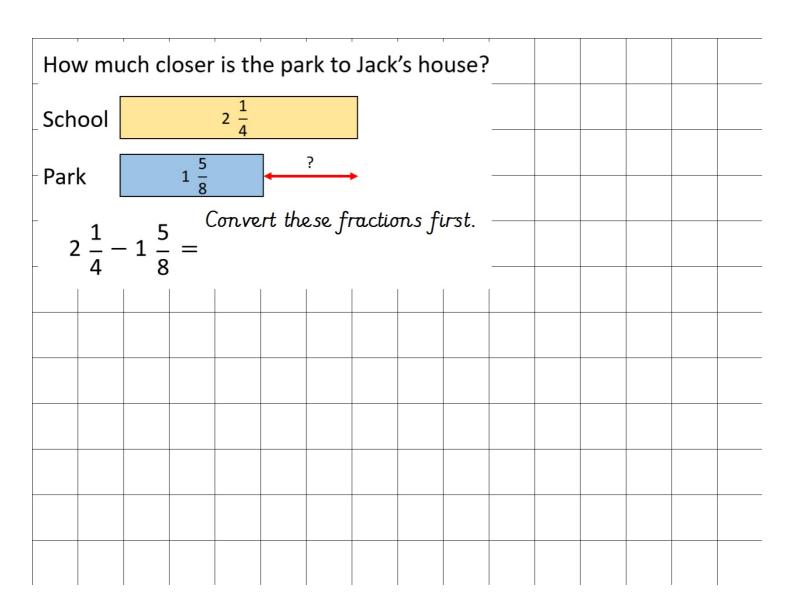
From Jack's house to the park is $1 \frac{5}{8}$ km.

How much closer is the park to Jack's house?



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

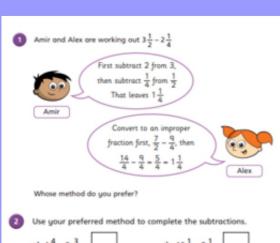
Have a think



$2\frac{1}{4}-1\frac{5}{8}=$	Now convert to improper fractions and subtract!
$2\frac{2}{8} - 1\frac{5}{8} =$	

5- - 1	1 10	— 3	3 - 5	=						
				×						

Have a go at questions 3, 4 and 6.



Amir and Dora are working out $4\frac{1}{5} - 1\frac{2}{5}$ You can't use my Amir

a) Do you agree with Amir? I know that $4\frac{1}{5} = 3\frac{6}{5}$

5 B's Brair Book Boan Buda Boss

c)
$$16\frac{1}{2} - 5\frac{1}{4} =$$

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

Car A travels for 15 1/4 miles.





Car B travels for $21\frac{5}{12}$ miles.

How much further does Car B travel than Car A?

 $4\frac{1}{5} - 1\frac{2}{5} =$



Extension activity:

There are three colours of dog biscuits in a bag of dog food: red, brown and orange.

The total mass of the dog food is 7 kg.

The mass of red biscuits is $3\frac{3}{4}$ kg and the mass of the brown biscuits is $1\frac{7}{16}$ kg.

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How much rit

How much rit altogether?

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	Extension activity: There are three colours of dog biscuits in a bag of dog food: red, brown and orange. The total mass of the dog food is 7 kg. The mass of red biscuits is $3\frac{3}{4}$ kg and the mass of the brown biscuits is $1\frac{7}{16}$ kg. What is the mass of orange biscuits?						Rosie has $20^{-\frac{3}{4}}$ cm of ribbon. Annie has $6^{-\frac{7}{8}}$ cm less ribbon than Rosie. How much ribbon does Annie have? How much ribbon do they have altogether?						
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