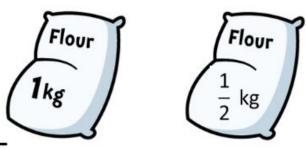
I can carry out mixed addition and subtraction fractions.

26.11.20

Let's work this out...

I have $1\frac{1}{2}$ kg of flour.



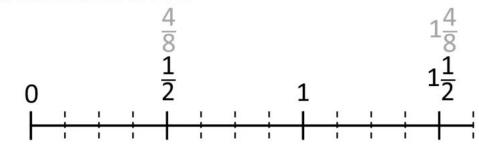
I use $\frac{5}{8}$ kg of flour to make a cake. How much flour is left?

Let's work this out...

I have $1\frac{1}{2}$ kg of flour.

I use $\frac{5}{8}$ kg of flour to make a cake.

How much flour is left?



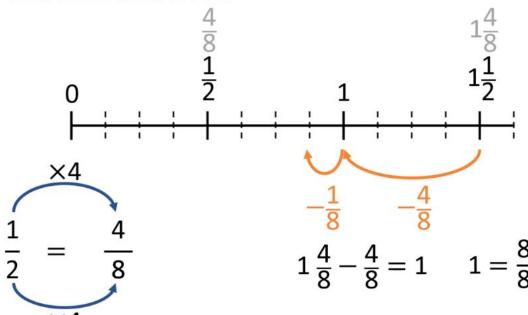
$$\frac{1}{2} = \frac{4}{8}$$

How else could we have solved that problem?

I have $1\frac{1}{2}$ kg of flour.

I use $\frac{5}{8}$ kg of flour to make a cake.

How much flour is left?

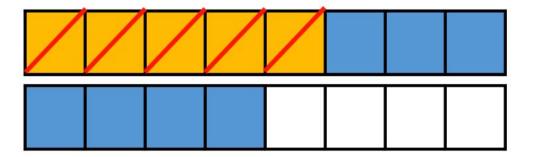


I have $1\frac{1}{2}$ kg of flour.

I use $\frac{5}{8}$ kg of flour to make a cake.

How much flour is left?

$$1 - \frac{5}{8} \qquad \frac{1}{2} \\ \frac{3}{8} + \frac{4}{8} = \frac{7}{8} \text{ kg}$$



Let's work this out....

What are the common multiples between the fractions?

You need to change the denominators to be the same.

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

$$\frac{1}{6} + 1\frac{2}{5} + \boxed{ = 3\frac{12}{15}}$$

$$\frac{5}{30} + 1\frac{12}{30} + \boxed{ = 3\frac{24}{30}}$$

$$1\frac{17}{30} + \boxed{ 2\frac{7}{30}} = 3\frac{24}{30}$$

Multiples of 6: 6, 12, 18, 24, 30 36 Multiples of 5: 5, 10, 15, 20, 25, 30

Multiples of 15: 15, 30, 45, 60, 75, 90

Let's work this out....

You need to use the methods that we have talked about to solve these questions.

Varied Fluency



Alex has 5 bags of sweets.

On Monday she eats $\frac{2}{3}$ of a bag and gives $\frac{4}{5}$ of a bag to her friend.

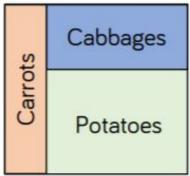
On Tuesday she eats $1\frac{1}{3}$ bags and gives $\frac{2}{5}$ of a bag to her friend.

What fraction of her sweets does Alex have left?

Give your answer in its simplest form.



Here is a vegetable patch. $\frac{1}{5}$ of the patch is for carrots. $\frac{3}{8}$ of the patch is for cabbages.



What fraction of the patch is for carrots and cabbages altogether?

What fraction of the patch is for potatoes? What fraction more of the patch is for potatoes than cabbages? Give your answers in their simplest form.

The vegetable patch has an area of 80 m² What is the area covered by each vegetable?

Your task...

Remember there is a link on the daily timetable to a video that can help you!

Mixed addition and subtraction



Work out the calculations.

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

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

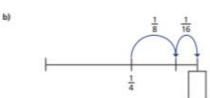
c)
$$3\frac{7}{10} - 2\frac{1}{4} =$$

Complete the calculation.

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







Complete the calculations.

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

b)
$$\frac{2}{5} + \frac{1}{5} + = 1\frac{1}{2}$$

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

d)
$$\frac{4}{5} = -\frac{4}{5}$$

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Your task...

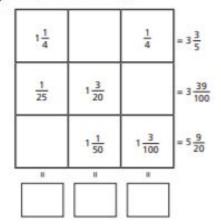
5 Which of these are true and which are false?

Can you decide without having to do the additions or the subtractions?

Talk about your reasons with a partner.

	True or false?
$2\frac{1}{3} + 3\frac{3}{4}$ is equal to $3\frac{1}{3} + 2\frac{3}{4}$	
$3\frac{3}{4} - \frac{1}{3}$ is less than $4\frac{3}{4} - 1\frac{1}{3}$	
$3\frac{3}{4} - 2\frac{1}{3}$ is equal to $3\frac{1}{3} - 2\frac{3}{4}$	





7 A painter uses the following mixtures.
How much more green paint does she have than purple paint?



B Eva and Amir are working out this calculation.

 $\frac{1}{4} + \frac{25}{100} - \frac{2}{8} - \frac{9}{36}$

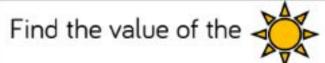


This is going to be very difficult, because I can't find a common denominator.



I have found an easier way.

Find Amir's solution. Explain how this calculation can be solved.





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

$$8\frac{1}{10} - \bigcirc = \bigcirc$$

Find the value of the



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

$$8\frac{1}{10} - =$$

The value of the



is $2\frac{8}{9}$

The value of the



is $5\frac{19}{90}$

The mass of Annie's suitcase is $29\frac{1}{2}$ kg.

Teddy's suitcase is $2\frac{1}{5}$ kg lighter than Annie's.

How much does Teddy's suitcase weigh? How much do the suitcases weigh altogether?

There is a weight allowance of 32 kg per suitcase.

How much below the weight allowance are Annie and Teddy?





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There is a weight allowance of 32 kg per suitcase.

How much below the weight allowance are Annie and Teddy?





Teddy's suitcase weighs $27 \frac{3}{10} \text{ kg}$

The suitcases weigh $56 \frac{4}{5} \text{ kg}$ altogether.

Annie is $2\frac{1}{2}$ kg under the weight allowance.

Teddy is $4\frac{7}{10}$ kg under the weight allowance.

Plenary...

True or False?

Mixed addition and subtractic

| |-|4 3 -4

The sum of the two cards is double the difference.



True or False?

Mixed addition and subtraction

True

The sum of the two cards is $\frac{4}{4}$ or I

The difference is $\frac{2}{4}$ Double $\frac{2}{4}$ is $\frac{4}{4}$

