

Add & Subtract Fractions (1)

Reasoning and Problem Solving

Use the same digit in both boxes to complete the calculation.

Is there more than one way to do it?

$$\frac{\boxed{}}{\boxed{20}} + \frac{\boxed{1}}{\boxed{}} = \frac{\boxed{9}}{\boxed{20}}$$

Dexter subtracted $\frac{3}{5}$ from a fraction and his answer was $\frac{8}{45}$

What fraction did he subtract $\frac{3}{5}$ from?
Give your answer in its simplest form.

Alex is adding fractions.

$$\frac{3}{5} + \frac{1}{15} = \frac{4}{20} = \frac{1}{5}$$

Do you agree with her?
Explain your answer.

Add & Subtract Fractions (2)

Reasoning and Problem Solving

A car is travelling from Halifax to Brighton.
In the morning, it completes $\frac{2}{3}$ of the journey.

In the afternoon, it completes $\frac{1}{5}$ of the journey.

What fraction of the journey has been travelled altogether?

What fraction of the journey is left to travel?

If the journey is 270 miles, how far did the car travel in the morning?

How far did the car travel in the afternoon?

How far does the car have left to travel?



Mr and Mrs Rose are knitting scarves.

Mr Rose's scarf is $\frac{5}{9}$ m long.

Mrs Rose's scarf is $\frac{1}{5}$ m longer than Mr Rose's scarf.

How long is Mrs Rose's scarf?

How long are both the scarves altogether?

Fill in the boxes to make the calculation correct.

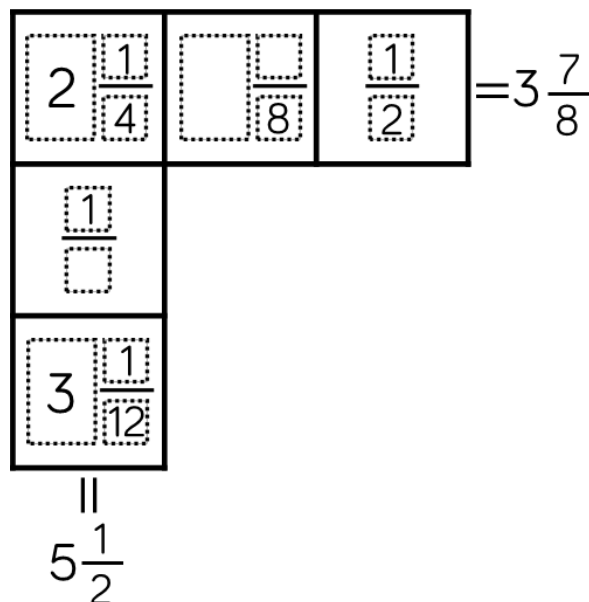
$$\boxed{1}\boxed{\frac{}{}} = \boxed{\frac{3}{}} + \boxed{\frac{}{10}}$$

Add Fractions

Reasoning and Problem Solving

Each row and column adds up to make the total at the end.

Use this information to complete the diagram.



Dora is baking muffins.

She uses $2\frac{1}{2}$ kg of flour, $1\frac{3}{5}$ kg of sugar and $1\frac{1}{4}$ kg of butter.

How much flour, sugar and butter does she use altogether?

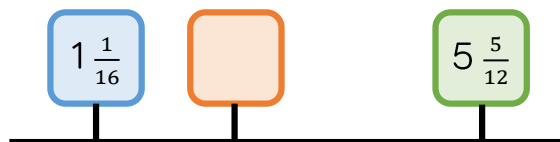
How much more flour does she use than butter?

How much less butter does she use than sugar?

Subtract Fractions

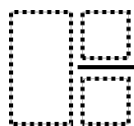
Reasoning and Problem Solving

A blue, orange and green box are on a number line.



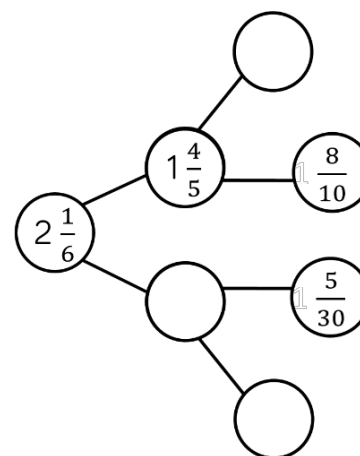
The number in the green box is $3\frac{2}{3}$ more than the orange box.

The number in the orange box is:



The number in the orange box is $\frac{\quad}{\quad}$ greater than the number in the blue box.

Complete the part-whole model.



Jack is calculating $4\frac{2}{7} - 2\frac{6}{7}$

He adds $\frac{1}{7}$ to both numbers.



$$4\frac{2}{7} - 2\frac{6}{7} = 4\frac{3}{7} - 3$$

so the answer is $1\frac{3}{7}$

Explain why Jack is correct.

Mixed Addition & Subtraction

Reasoning and Problem Solving

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

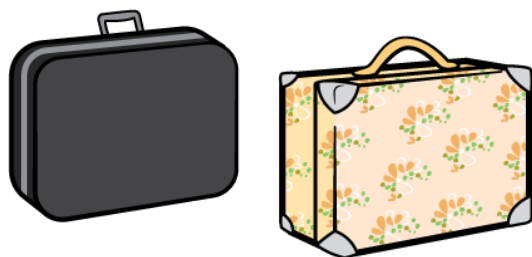
Teddy's suitcase is $2\frac{1}{5}$ kg lighter than Annie's.


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?



Find the value of the 

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

$$8\frac{1}{10} - \text{heart} = \text{sun}$$

