LF: + and – fractions

Try it

1. $\frac{1}{4} + \frac{2}{4} = ?$

2. $? = \frac{7}{10} - \frac{3}{10}$

3. $\frac{5}{12} + \frac{3}{12} + \frac{2}{12} = ?$

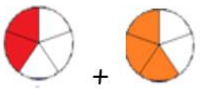
4. 9/12 – 2/12 – 4/12 = ?

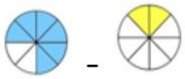
1. 3/4

2. 4/10

3. 10/12

4. 3/12

5.  5/5 or 1 whole

6.  4/8 or 1/2

Use it

1. Sam has 3/9 of a cake and Beth has 4/9 of a chocolate cake. How much cake do they have altogether? 7/9

2. A group of penguins have 12/16 left of fish in their bucket. They eat 4/16. How much fish is left? 8/16 or 1/2

3. 

Tilly adds another 3 pieces to her board. What fraction of her board is filled in? 6/8

4. In Term 1, Abi has 4/15 of her sticker chart, Tommy has 5/15 of his sticker chart and Daisy has 3/15. How much of their sticker charts are completed in total? 12/15

5. A man is delivering pizza. He has 1 whole (9/9) at the start. He drops 3/9 on the floor, delivers 4/9 and gets hungry so eats 1/9. How much is left of the pizza? 1/9

6. Farmer Bill plants some crops on his field. He plants 1/12 with carrots, 4/12 with potatoes and 3/12 with parsnips. What fraction of his field does NOT have crops planted on it? 4/12

Prove it

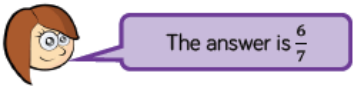
1. How many different ways can you find to solve the calculation?

$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{11}{9}$$

2. Nicola and Nisha are solving:

$\frac{4}{7} + \frac{2}{7}$

Nicola says,



Nisha says,

Who do you agree with?
Explain why.

Nicola is correct. Nisha has made the mistake of also adding the denominators. Children could prove why Nisha is wrong using a bar model or strip diagram.

3. The answer is 5/10, what is the question? (involving fractions / operations)

Here are a few examples:

2/10 + 3/10 = 5/10

8/10 – 3/10 = 5/10

10/10 – 5/10 = 5/10

1/10 + 4/10 = 5/10

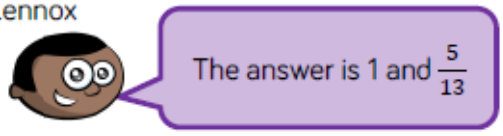
There are many, many more...

Challenge: This will help you with next week's maths.

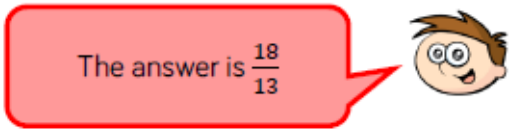
Lennox and Brandon are solving:

$\frac{6}{13} + \frac{5}{13} + \frac{7}{13}$

Lennox



Brandon



Who do you agree with? Explain why.

They are both correct. Lennox has added $\frac{6}{13} + \frac{7}{13}$ to make a whole and then added $\frac{5}{13}$