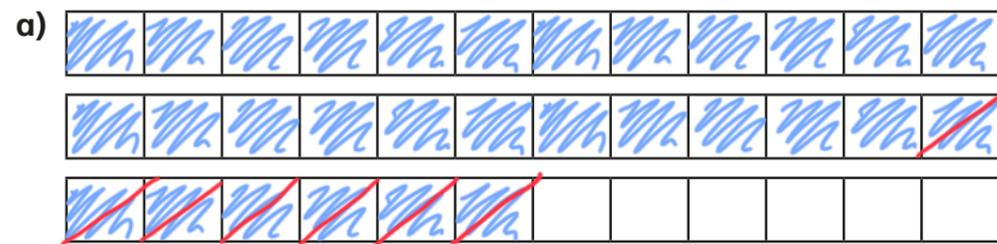


Subtract – breaking the whole

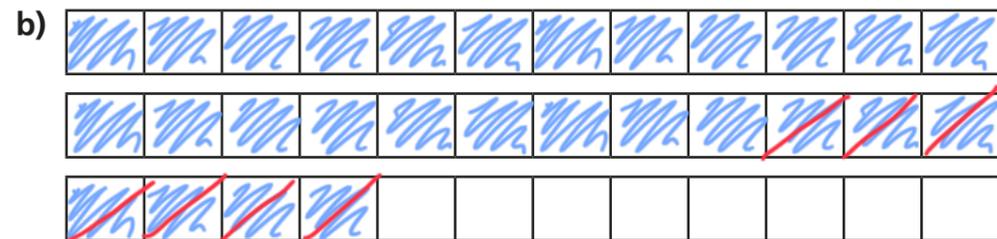


1 Complete the subtractions.

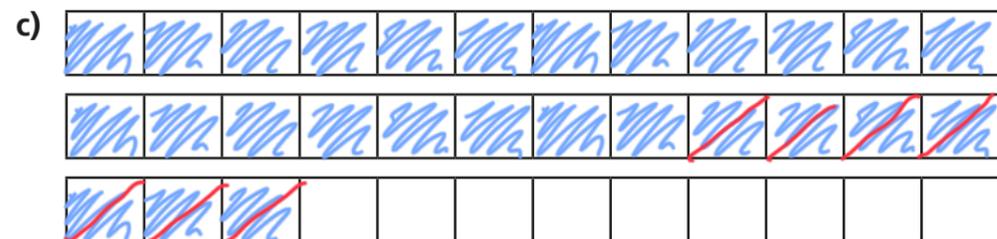
Use the bar models to help you.



$$2\frac{1}{2} - \frac{7}{12} = 1\frac{11}{12}$$



$$2\frac{1}{3} - \frac{7}{12} = 1\frac{3}{4}$$



$$2\frac{1}{4} - \frac{7}{12} = 1\frac{2}{3}$$

2 a) Complete the subtractions.

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

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

$$3\frac{1}{4} - \frac{3}{8} = 2\frac{7}{8}$$

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

b) At what point did the answer break the whole? Why?

c) Tick the calculations that will break the whole.

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

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

$$6\frac{11}{12} - \frac{2}{3}$$

$$4\frac{2}{5} - \frac{7}{15}$$

3 Complete the subtractions.

$$a) 3\frac{1}{5} - \frac{7}{15} = 2\frac{11}{15}$$

$$d) 2\frac{1}{6} - \frac{5}{12} = 1\frac{3}{4}$$

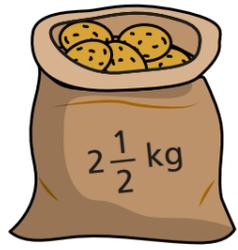
$$b) 3\frac{1}{16} - \frac{5}{8} = 2\frac{7}{16}$$

$$e) 3\frac{2}{9} - \frac{13}{18} = 2\frac{1}{2}$$

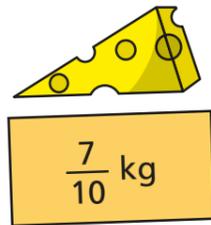
$$c) 4\frac{5}{12} - \frac{5}{6} = 3\frac{7}{12}$$

$$f) 3\frac{4}{9} - \frac{13}{27} = 2\frac{26}{27}$$

4 Here are some ingredients.



Potatoes



Cheese



Carrots

a) How much more do the carrots weigh than the cheese?

The carrots weigh $\frac{7}{10}$ kg more than the cheese.

b) Jack uses $\frac{17}{20}$ kg of carrots.

How many kilograms of carrots does he have left?

Jack has $\frac{11}{20}$ kg of carrots left.

c) Jack uses all the cheese and the same amount of potatoes.

How much do the leftover potatoes weigh?

The leftover potatoes weigh $1\frac{4}{5}$ kg.

5 Eva is doing the long jump.

On her 1st attempt, she jumps $3\frac{2}{9}$ m.

Her 2nd attempt is $\frac{2}{3}$ m shorter than her first.

How far does Eva jump on her 2nd attempt?

Eva jumps $2\frac{5}{9}$ m on her 2nd attempt.

6 a) The difference between a mixed number and a fraction is $\frac{7}{8}$

The fraction has a denominator of 16

What could the mixed number and the fraction be?

Give two possible answers.

e.g.

$1\frac{1}{16}$ and $\frac{3}{16}$ $1\frac{3}{16}$ and $\frac{5}{16}$

b) Talk to a partner about how you could find more answers.