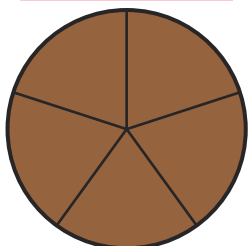




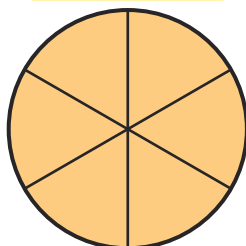
- 1) A school is having a cake sale. There are four cakes of equal size. Each cake is sliced into different size servings.

chocolate cake



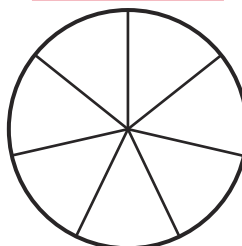
The chocolate cake is cut into fifths.

walnut cake



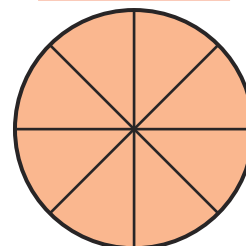
The walnut cake is cut into sixths.

sponge cake



The sponge cake is cut into sevenths.

carrot cake



The carrot cake is cut into eighths.

Calculate the amount of cake each child buys as a fraction of a whole cake.



Jo

I bought 1 slice of chocolate cake and 1 slice of carrot cake.



Hasim

I bought 2 slices of walnut cake and 2 slices of sponge cake.



Krystal

I bought 2 slices of chocolate cake and 3 slices of sponge cake.

- 2) At the end of the cake sale, there are 2 slices of walnut cake and 3 slices of carrot cake left. What fraction of the two cakes had been eaten?

- 3) Decide how many slices of the cakes you would buy. Calculate your answer as a fraction of a whole cake.



- 1) Krystal has five full packets of balloons and one third of another packet. For her party, she blows up two full packets of balloons and four-fifths of another packet.



Jo

$$4\frac{20}{15} - 2\frac{12}{15}$$



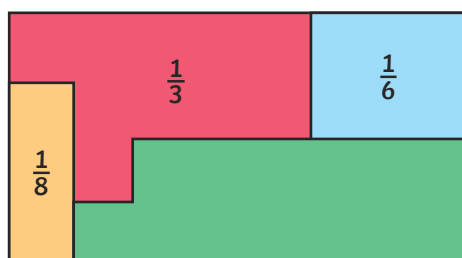
Hasim

$$\frac{80}{15} - \frac{42}{15}$$

Jo and Hasim calculate how many balloons she has left as a fraction.

What answer do both calculations give? Explain the methods used.

- 2) Hasim has designed a new flag.



I think that three-eighths of my flag is coloured green.

Do you agree with Hasim? Explain your reasoning.

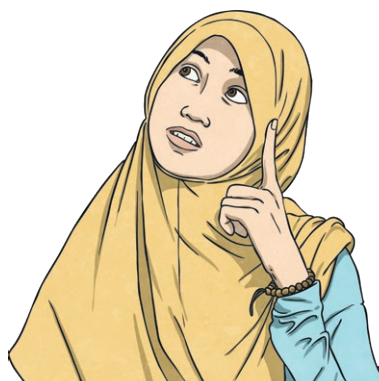
- 1) The total mass of three suitcases is $30\frac{7}{12}$ kg. Calculate the mass of the third suitcase.



$8\frac{5}{9}$ kg



$9\frac{1}{6}$ kg



- 2) Here are three digit cards and a calculation.

3

4

5

$$\begin{array}{|c|} \hline \square \\ \hline 6 \\ \hline \end{array} + \begin{array}{|c|} \hline \square \\ \hline 10 \\ \hline \end{array} + \begin{array}{|c|} \hline \square \\ \hline 12 \\ \hline \end{array} =$$

Use each digit card once to complete the calculation, working out the answer.

Find all possible answers and put them in ascending order.