



1) Use the bar model to help subtract the fractions.



$$\frac{5}{6} - \frac{\quad}{\quad} = \frac{\quad}{\quad}$$



$$\frac{7}{8} - \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

2) Represent the number sentences as bar models to help you find the answers.

a)

$$\frac{4}{7} - \frac{2}{7} = \frac{\quad}{\quad}$$

b)

$$\frac{6}{9} - \frac{1}{9} = \frac{\quad}{\quad}$$

3) True or false? Prove it using a bar model.

a) three-sevenths subtract two-sevenths equals one-seventh

b) two-quarters subtract one-quarter equals one-half



1) Work out what the missing fractions are.

a) $\frac{\boxed{5}}{\boxed{8}} - \frac{\boxed{2}}{\boxed{8}} = \frac{\boxed{1}}{\boxed{8}} + \frac{\boxed{}}{\boxed{}}$

b) $\frac{\boxed{10}}{\boxed{11}} - \frac{\boxed{}}{\boxed{}} = \frac{\boxed{3}}{\boxed{11}} + \frac{\boxed{4}}{\boxed{11}}$

2) This pizza is being shared at Francis' birthday party.



If I give away $\frac{2}{6}$ of my pizza, I will still have $\frac{3}{6}$ left over.

Francis

Do you agree with Francis? Prove it!

3) Alexander has a chocolate bar with 8 pieces.



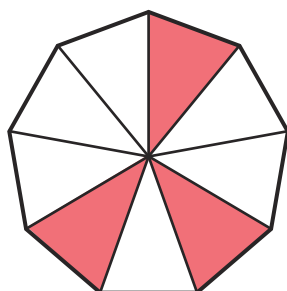
If I eat 2 pieces and give $\frac{3}{8}$ to a friend, I will still have over half of what I started with.

Alexander

Do you agree with Alexander?
Explain with reasoning.

4) A shape has been part shaded.

What fractions could have been subtracted to create this shape?



a) Find 2 possibilities with 2 fractions.

b) Find 2 possibilities with 3 fractions.

- 1) Work out what the missing numerators could be are. How many possibilities can you find?



a) $\frac{\boxed{7}}{\boxed{12}} - \frac{\boxed{}}{\boxed{12}} = \frac{\boxed{1}}{\boxed{12}} + \frac{\boxed{}}{\boxed{12}}$

b) $\frac{\boxed{}}{\boxed{16}} - \frac{\boxed{8}}{\boxed{16}} = \frac{\boxed{}}{\boxed{16}} + \frac{\boxed{6}}{\boxed{16}}$

- 2) 3 children each took an even number of footballs during practice with none remaining.

 $\frac{\boxed{10}}{\boxed{10}} - \frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

How many number sentences can you think of that show the number of footballs that each child could have taken?

- 3) Year 3 are discussing what happens when you subtract fractions.



If you subtract 2 fractions for another fraction, you will always have nothing left.

Is this statement always, sometimes or never true?
Prove it!

- 4) Using fractions, how many addition and subtraction calculations can you make from the image?

