

## Green

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



$$\frac{\boxed{5}}{\boxed{6}} - \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}} = \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$



$$\frac{\boxed{7}}{\boxed{8}} - \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}} = \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

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

a) 
$$\frac{\boxed{4}}{\boxed{7}} - \frac{\boxed{2}}{\boxed{7}} = \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

b) 
$$\frac{\boxed{6}}{\boxed{9}} - \frac{\boxed{1}}{\boxed{9}} = \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

- 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

4.

2a. Fill in the missing numerator.

$$\frac{5}{8} - \frac{\square}{8} = \frac{1}{8}$$



VF

2b. Fill in the missing numerator.

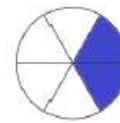
$$\frac{4}{5} - \frac{\square}{5} = \frac{2}{5}$$



3a. Write a statement to match the images.



3b. Write a statement to match the images.



5.

2a. Is Charlie correct?



I subtract  $\frac{2}{7}$  from  $\frac{6}{7}$ .  
Sami has  $\frac{5}{7}$ .  
I have more than Sami.

Charlie



Explain why.

2b. Is Savannah correct?



I subtract  $\frac{2}{6}$  from  $\frac{7}{6}$ .  
Hanif has  $\frac{4}{6}$ .  
I have less than Hanif.

Savannah



Explain why.

## Yellow

1) Work out what the missing fractions are.



a)

$$\frac{\boxed{5}}{\boxed{8}} - \frac{\boxed{2}}{\boxed{8}} = \frac{\boxed{1}}{\boxed{8}} + \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

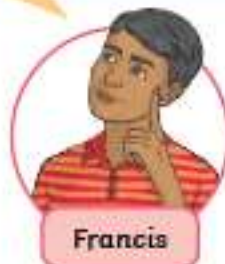
b)

$$\frac{\boxed{10}}{\boxed{11}} - \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{3}}{\boxed{11}} + \frac{\boxed{4}}{\boxed{11}}$$

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.

6a. Complete the calculation.

$$\frac{10}{12} - \frac{6}{12} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$



6b. Complete the calculation.

$$\frac{9}{10} - \frac{5}{10} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$



VF

7a. Fill in the missing numerator.

$$\frac{\boxed{\phantom{00}}}{9} - \frac{5}{9} = \frac{3}{9}$$

7b. Fill in the missing numerator.

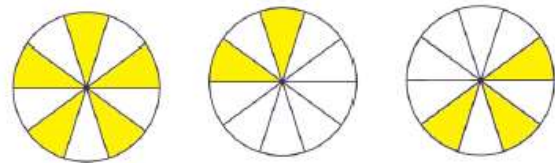
$$\frac{\boxed{\phantom{00}}}{6} - \frac{4}{6} = \frac{2}{6}$$

5.

8a. Write a statement to match the images.



8b. Write a statement to match the images.



## Red

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



a)  $\frac{\boxed{7}}{\boxed{12}} - \frac{\boxed{\phantom{00}}}{\boxed{12}} = \frac{\boxed{1}}{\boxed{12}} + \frac{\boxed{\phantom{00}}}{\boxed{12}}$

b)  $\frac{\boxed{\phantom{00}}}{\boxed{16}} - \frac{\boxed{8}}{\boxed{16}} = \frac{\boxed{\phantom{00}}}{\boxed{16}} + \frac{\boxed{6}}{\boxed{16}}$

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

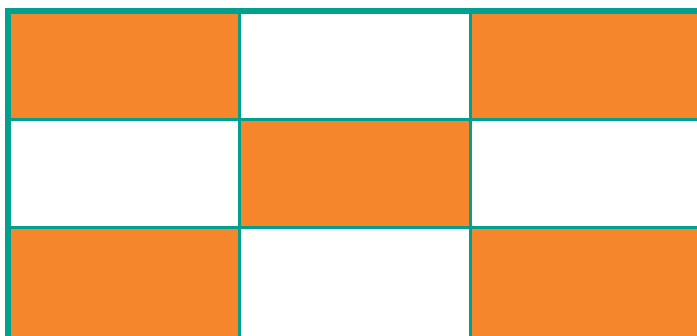


$$\frac{\boxed{10}}{\boxed{10}} - \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} - \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} - \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

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

3.

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



4.

9a. Draw an image to match the statement.

$$\frac{7}{8} - \frac{6}{8} = \frac{1}{8}$$



9b. Draw an image to match the statement.

$$\frac{9}{10} - \frac{5}{10} = \frac{4}{10}$$



VF

10a. Seven-ninths subtract two-ninths equals four-ninths.

True or false?

10b. Eight-tenths subtract two-tenths equals six-tenths.

True or false?

5.

4a. Simon has  $\frac{9}{12}$  of a cake.

He gives Toby four-twelfths of the cake.

How many twelfths does he have left?

4b. Leo has  $\frac{9}{10}$  of a chocolate bar.

He gives Lottie seven-tenths of the bar.

How many tenths does he have left?



PS



P

5a. Is Remi correct?



Remi

I subtract  $\frac{3}{9}$  from  $\frac{8}{9}$ .  
Syrie has  $\frac{4}{9}$ .  
I have more than Syrie.

Explain why.

5b. Is Amit correct?



Amit

I subtract  $\frac{2}{8}$  from  $\frac{7}{8}$ .  
Harlow has  $\frac{4}{8}$ .  
I have less than Harlow.

Explain why.