


Use this sheet **WHEN** you've completed the main worksheet and want a challenge. Remember to use your blue book if you have it to show your workings. The questions were resourced from White Rose Maths and Twinkl Diving into Mastery.

1. Jack and Annie are solving  $\frac{4}{5} - \frac{2}{5}$

Jack's method: 

Annie's method: 

They both say the answer is two fifths. Can you explain how they have found their answers?

Jack has just taken away  $\frac{2}{5}$  from his bar model.

Annie has found the difference between  $\frac{4}{5}$  and  $\frac{2}{5}$  which has shown her that the answer is  $\frac{2}{5}$

2. Find the missing fractions:

$$\frac{7}{7} - \frac{3}{7} = \frac{2}{7} + \square$$

$$\square - \frac{5}{9} = \frac{4}{9} - \frac{2}{9}$$

a.  $\frac{2}{7}$  because the difference between  $\frac{7}{7}$  and  $\frac{3}{7}$  is  $\frac{4}{7}$

b.  $\frac{7}{9}$  because  $\frac{4}{9}$  subtract  $\frac{2}{9}$  equals  $\frac{2}{9}$

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



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

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

1) a) These are some of the possible answers: b)

$$\frac{7}{12} - \frac{1}{12} = \frac{1}{12} + \frac{5}{12}$$

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

$$\frac{7}{12} - \frac{3}{12} = \frac{1}{12} + \frac{3}{12}$$

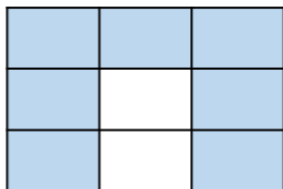
$$\frac{7}{12} - \frac{4}{12} = \frac{1}{12} + \frac{2}{12}$$

$$\frac{7}{12} - \frac{5}{12} = \frac{1}{12} + \frac{1}{12}$$

$$\frac{15}{16} - \frac{8}{16} - \frac{1}{16} = \frac{6}{16}$$

$$\frac{16}{16} - \frac{8}{16} - \frac{2}{16} = \frac{6}{16}$$

4. How many fraction addition and subtractions can you make from this model?



There are lots of calculations children could record. Children may even record calculations where there are more than 2 fractions e.g.  $\frac{3}{9} + \frac{1}{9} + \frac{3}{9} = \frac{7}{9}$