*I can subtract fractions with mixed numbers.*

*Part 1 –Work out the subtraction calculations using the diagrams.*

1.  *1* $\frac{1}{2}$ *-* $\frac{1}{4}$ *=*

*b. 1* $\frac{3}{4}$ *-* $\frac{3}{8}$ *=*

*c. 1* $\frac{2}{3}$ *-* $\frac{5}{6}$ *=*

*d. 1* $\frac{2}{3}$ *-* $\frac{5}{6}$ *=*

*e. 2* $\frac{2}{5}$ *-* $\frac{7}{10}$ *=*

*f. 2* $\frac{5}{6}$ *-* $\frac{11}{12}$ *=*

*E.g. 1*$\frac{3}{4}$ *-* $\frac{5}{8}$ *= 1* $\frac{1}{8}$

*Step 1 – Colour in the amount you have to start with*

*Step 2 – Separate the second rectangle into the amount of the second denominator*

*Step 3 – Cross out the amount you are subtracting (you may need to use the first block too)*

*Part 2 – Solve the problems by converting finding the same denominator. Show both answers, the improper and mixed number.*

*Step 1 – Change one of the fractions so that they both have the same denominator*

*Step 2 – Subtract the wholes first (if there are wholes with both fractions)*

*Step 3 – Subtract the fractions*

*Step 4 – Add the leftover whole and fraction together*

*E.g.* $3\frac{2}{3}- 2\frac{1}{6}= 3\frac{2}{3}$ *= 3*$\frac{4}{6} $ *3- 2 = 1* $\frac{4}{6}$ *-* $\frac{1}{6} $*=* $\frac{3}{6}$ *1+*$ \frac{3}{6}$ *= 1*$\frac{3}{6}$

1. $1\frac{2}{3}- \frac{2}{6}=$
2. $1\frac{2}{3}- \frac{4}{6}= $
3. $1\frac{3}{4}- \frac{5}{8}=$
4. $2\frac{2}{3}- \frac{4}{9}=$
5. $2\frac{2}{3}- 1\frac{3}{6}=$
6. $2\frac{2}{3}- 1\frac{7}{15}=$
7. $3\frac{5}{7}- \frac{10}{14}=$
8. $4\frac{2}{4}- 2\frac{13}{16}=$

*Part 3 – Calculate the answers to these problems.*

*Step 1 – Find the fraction that you started with*

*Step 2 – Find how many you are taking away*

*Step 3 – Figure out how much Annie has by subtracting*

*Step 4 – Use your addition knowledge to figure out how much they have all together (if you are unsure about the adding then leave this final section)*

*E.g. Rosie has 5* $\frac{3}{4}$*cm of ribbon.*

*Annie has* $\frac{5}{8}$*cm less ribbon than Rosie.*

*How much ribbon does Annie have? 5* $\frac{3}{4}$ *-* $\frac{5}{8}$ *= 5* $\frac{3}{4}$ *= 5* $\frac{6}{8}$ *5* $\frac{6}{8}$ *-* $\frac{5}{8}$ *=* $5\frac{1}{8}$

*How much ribbon do they have altogether? 5* $\frac{3}{4}+$$\frac{5}{8}$ *= 5* $\frac{3}{4}$ *= 5* $\frac{6}{8}$ *5* $\frac{6}{8}$ *+* $\frac{5}{8}$ *=* $6\frac{3}{8}$

1. *Rosie has 6* $\frac{3}{6}$*cm of ribbon.*

*Annie has* $\frac{2}{3}$*cm less ribbon than Rosie.*

*How much ribbon does Annie have?*

*How much ribbon do they have altogether?*

1. *Rosie has 8* $\frac{3}{9}$*cm of ribbon.*

*Annie has* $\frac{2}{3}$*cm less ribbon than Rosie.*

*How much ribbon does Annie have?*

*How much ribbon do they have altogether?*

*Part 4 – Use your knowledge of subtraction to put the correct digit in the correct box – Try your best*

*Step 1 – Look carefully at the denominators to see if one of the numbers could be a denominator*

*Step 2 – Check using equivalent fractions that it works*

1. *Place the digits 2 and 8 in the correct box*
2. *Place the digits 6 and 2 in the correct box*
3. *Place the numbers 3, 10 and 12 in the correct box*



1. *Place the numbers 2, 3 and 4 in the correct box*

***Challenge*** *– You don’t have to do these questions, but do have a go if you feel comfortable with the previous maths or want to challenge yourself! Do let Miss T know if you manage them at* *year5@stmarksce.org.uk*

*a. There are three colours of dog biscuits in a bag of dog food: red, brown and orange.*

*The total mass of the dog food is 5kg.*

*The mass of red biscuits is 2*$\frac{2}{5}$*kg and the mass of the brown biscuits is* $\frac{3}{15}$*kg.*

*What is the mass of orange biscuits?*

*b. There are three colours of dog biscuits in a bag of dog food: red, brown and orange.*

*The total mass of the dog food is 7kg.*

*The mass of red biscuits is 3*$\frac{3}{4}$*kg and the mass of the brown biscuits is* $\frac{7}{16}$*kg.*

*What is the mass of orange biscuits?*