***I can subtract fractions with different denominators.***

***When subtracting fractions with different denominators, we treat them the same as adding.***

*Part 1 – Use the diagrams to help you solve the subtraction questions.*

*Step 1 – Draw the bar model*

*Step 2 - Colour in the fraction you start with*

*Step 3 – Spilt the diagram into the amount of the second denominator*

*Step 4 – Cross out the amount of the second fraction*

1. *1/2 – 1/4 = b. 1/3 – 1/6 = c. 2/4 – 3/8 = d. 2/3 – 2/6 =*

 *e. 4/5 – 3/10 = f. 3/6 – 5/12 = g. 5/7 – 4/14 = h.7/10 – 11/20 =*

*Part 2 – Solve these calculations by changing the denominators.*

*Step 1 – Change the fractions so they have the same denominator*

*Step 2 – Subtract the numerators*

*E.g. 1/3 – 1/6 1/3 = 2/6 2/6 – 1/6 = 1/6*

1. *2/3 – 3/6 =*
2. *3/4 – 1/2 =*
3. *3/4 - 2/8 =*
4. *7/9 – 1/3 =*
5. *9/10 – 2/3 =*
6. *6/7 – 2/3 =*

*Part 3 – Find the missing fraction*

*Use the inverse to find the missing fractions in the calculations*

*(Hint: You need to use subtraction to find each answer)*

*e.g. 3/5 - \_\_\_\_\_ = 1/10 3/5 – 1/10 3/5 = 6/10 6/10 – 1/10 = 5/10*

1. *2/3 - \_\_\_\_\_ = 1/6*
2. *5/7 - \_\_\_\_\_ = 4/21*
3. *3/4 - \_\_\_\_\_ = 8/12*
4. *4/5 - \_\_\_\_\_= 3/20*

*e.g. \_\_\_\_\_ + 2/3 = 5/6 5/6 – 2/3 2/3 = 4/6 5/6 - 4/6 = 1/6*

1. *\_\_\_\_\_ + 3/4 = 11/12*
2. *\_\_\_\_\_ + 4/5 = 20/20*
3. *\_\_\_\_\_ + 2/11 = 30/33*
4. *\_\_\_\_\_ + 2/3 = 4/5*

*Part 4 - Find the missing digits on the number line*

*Use subtraction to find the missing digits on the number lines.*

*E.g. 3 /4 – 2/8*

*3/4 = 6/8*

*6/8 – 2/8 = 4/8*

*4/8 – 1/8 = 3/8*



1.



1.



1.



1.

***Challenge*** *– Find the missing length of the rectangle.*

*Remember that opposite sides are the same length in a rectangle.*

*Use your addition and subtraction knowledge to figure out the length of the missing side. (Pictures not to scale)*



*E.g. 2/4 = 4/8*

*4/8 + 4/8 = 8/8*

*10/8 – 8/8 = 2/8*

*2/8 split between 2 = 1/8*



1.
2. 