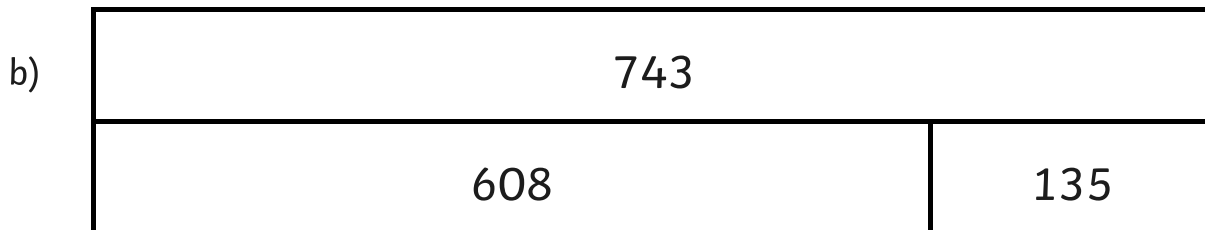
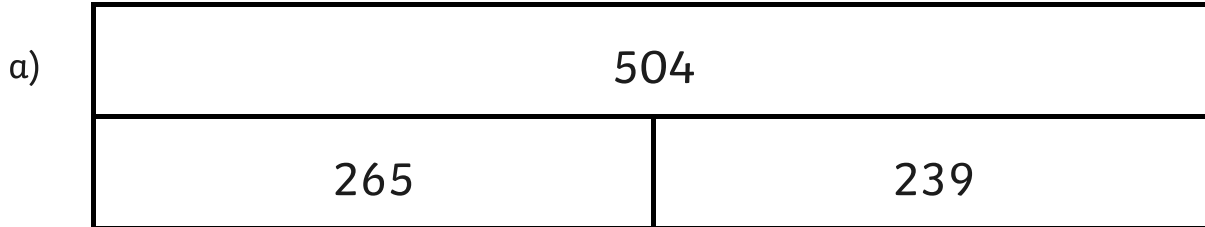


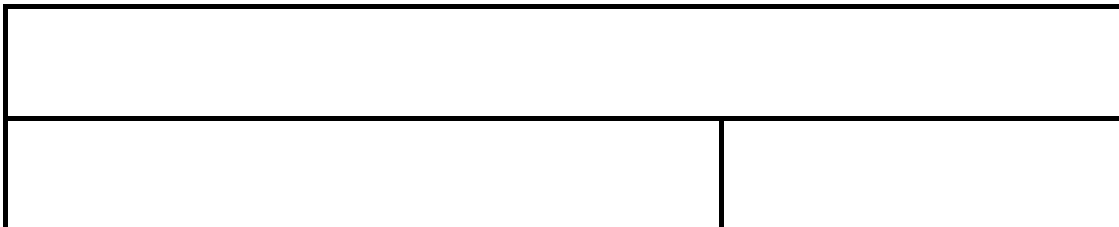
# Using Bar Models in Addition and Subtraction

1. Can you write an addition and a subtraction calculation for each bar using the given numbers?

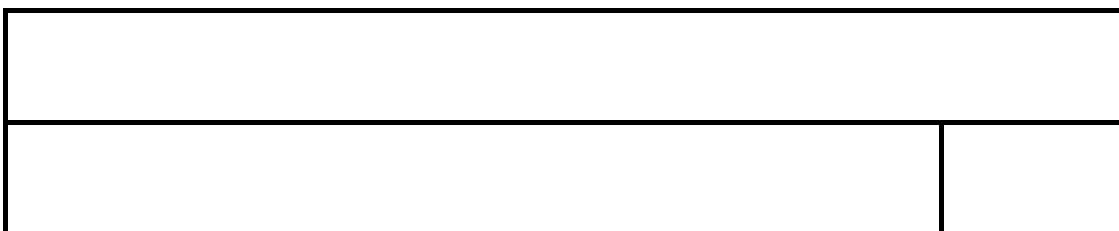


2. Can you write an addition and a subtraction calculation for each bar using the given numbers?

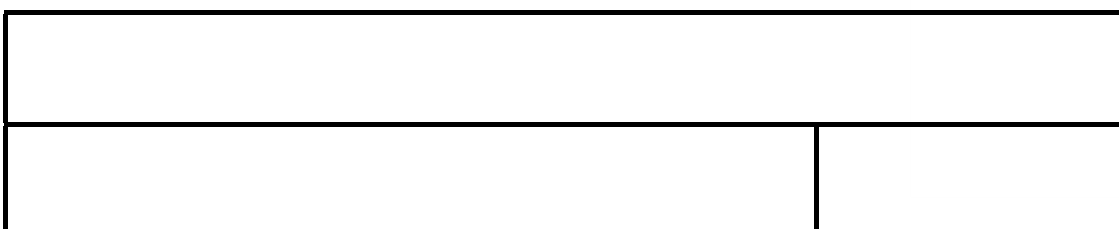
a)  $589 + 307 = \underline{\hspace{2cm}}$



b)  $678 - 546 = \underline{\hspace{2cm}}$



c)  $908 - \underline{\hspace{2cm}} = 321$



3. Now, draw a bar model in the space below the question to help you to solve the problems below.

a) Sally has 457 football cards in her collection folder. The whole folder holds 650 football cards in total. How many more football cards does Sally need to complete her collection?

b) The fish and chip shop had 372 haddocks in their freezer. The shopkeeper ordered another 565 haddocks from the wholesaler. How many haddocks do they now have in total?

### Challenge

Now it's your turn...can you invent a word problem that involves the numbers 765, 587 and 178? Can you draw and label a bar model to help you **show** the maths in your chosen calculation?

## Using Bar Models in Addition and Subtraction - Answers

question	answer	question	answer				
<b>1.</b>		<b>3.</b>					
a	Two calculations from: $265 + 239 = 504$ $239 + 265 = 504$ $504 - 265 = 239$ $504 - 239 = 265$	a	650 cards to fill folder <table border="1" style="margin: 10px auto;"> <tr> <td colspan="2" style="text-align: center;">650</td> </tr> <tr> <td style="text-align: center;">457</td> <td style="text-align: center;">193</td> </tr> </table> <p style="text-align: center;">Sally's cards                      cards needed</p>	650		457	193
650							
457	193						
b	Two calculations from: $608 + 135 = 743$ $135 + 608 = 743$ $743 - 135 = 608$ $743 - 608 = 135$	b	183 total number of haddocks <table border="1" style="margin: 10px auto;"> <tr> <td colspan="2" style="text-align: center;">937</td> </tr> <tr> <td style="text-align: center;">372</td> <td style="text-align: center;">565</td> </tr> </table> <p style="text-align: center;">haddocks in freezer                      haddocks</p>	937		372	565
937							
372	565						
<b>2.</b>		<b>Challenge</b>					
a	$589 + 307 = 896$ <table border="1" style="margin: 10px auto;"> <tr> <td colspan="2" style="text-align: center;">896</td> </tr> <tr> <td style="text-align: center;">589</td> <td style="text-align: center;">307</td> </tr> </table>	896		589	307	Any word problem and bar model relating to: $587 + 178 = 765$ $178 + 587 = 765$ $765 - 178 = 587$ $765 - 587 = 178$	
896							
589	307						
b	$678 - 546 = 132$ <table border="1" style="margin: 10px auto;"> <tr> <td colspan="2" style="text-align: center;">678</td> </tr> <tr> <td style="text-align: center;">546</td> <td style="text-align: center;">132</td> </tr> </table>	678		546	132		
678							
546	132						
c	$908 - 587 = 321$ <table border="1" style="margin: 10px auto;"> <tr> <td colspan="2" style="text-align: center;">908</td> </tr> <tr> <td style="text-align: center;">587</td> <td style="text-align: center;">321</td> </tr> </table>	908		587	321		
908							
587	321						