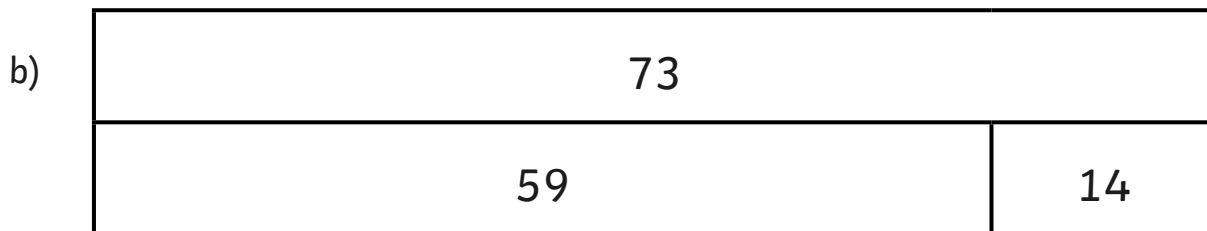# Using Bar Models in Addition and Subtraction
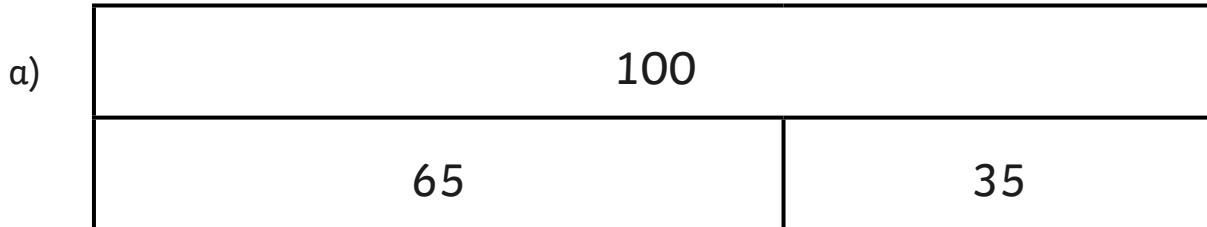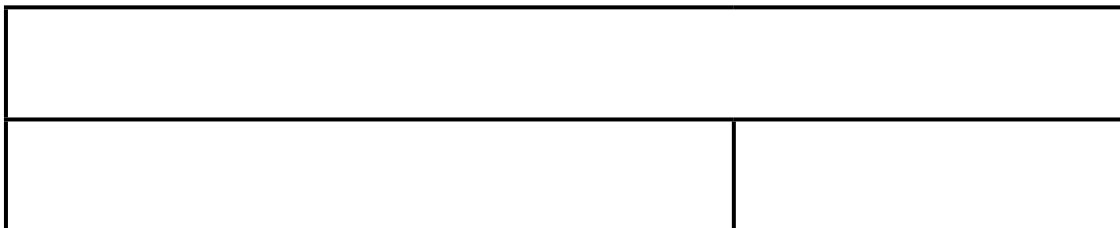
1. Can you write an addition and a subtraction calculation for each bar using the given numbers?

a)

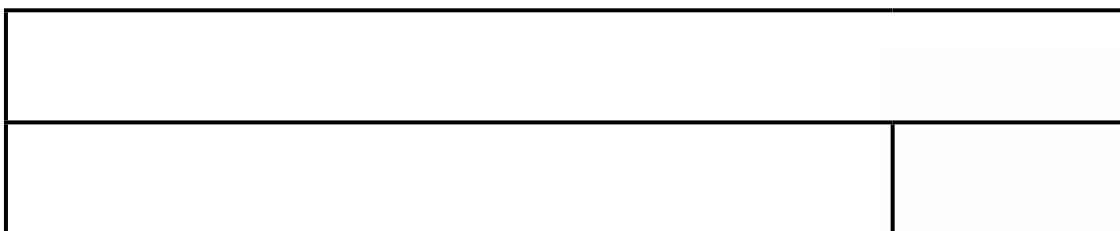| 100	
65	35

b)

73	
59	14

2. Can you complete the addition or subtraction calculation for each bar using the given numbers?

a) 48 + 33 = _____

b) 97 - 28 = _____

c) 88 - _____ = 21
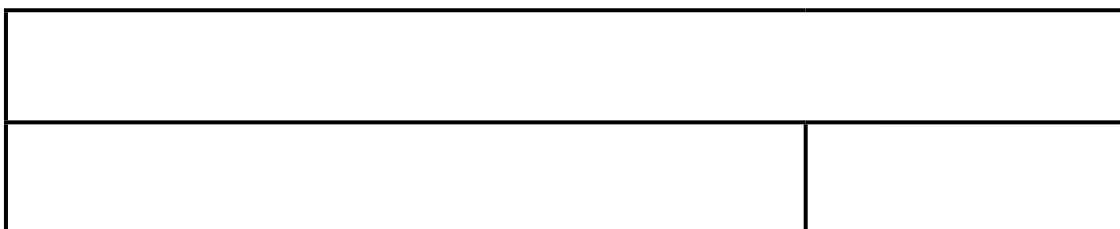
3. Now, complete the bar model below to help you to solve the problems.

   a) Sally has 57 football cards in her collection folder. The whole folder holds 100 football cards in total. How many more football cards does Sally need to complete her collection?

   b) The fish and chip shop had 38 haddocks in their freezer. The shopkeeper ordered another 55 haddocks from the wholesaler. How many haddocks do they now have in total?

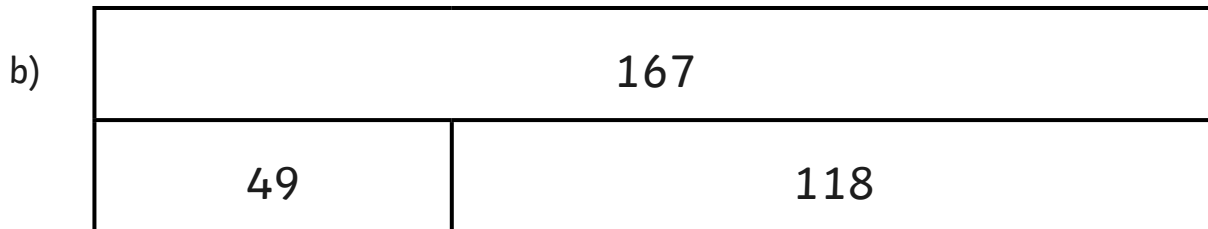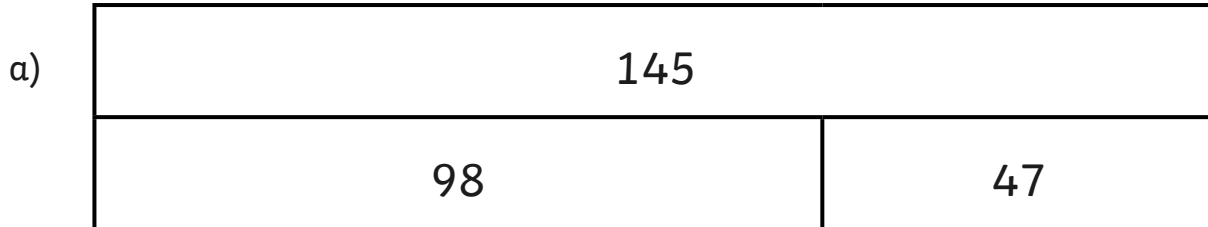 | |
   |---|
   | | |

Challenge

Now it's your turn... can you draw your own bar to solve this problem? Lenny had saved up £75. He spent £37 on a new football shirt. How much money did he have left?

Using Bar Models in Addition and Subtraction – **Answers**

question	answer	question	answer
1.		**3.**	
a	Two calculations from: 65 + 35 = 100 35 + 65 = 100 100 – 65 = 35 100 – 35 = 65	a	100 cards to fill folder **100** 57 | 43 Sally's cards | cards needed
b	Two calculations from: 59 + 14 = 73 14 + 59 = 73 73 – 59 = 14 73 – 14 = 59	b	93 total number of haddocks **93** 38 | 55 haddocks in freezer | haddocks
2.		**Challenge**	
a	48 + 33 = 81 81 48 | 33		£75 Lenny's savings £75 £37 | £38
b	97 – 28 = 69 97 69 | 28		
c	88 – 67 = 21 88 67 | 21		

Using Bar Models in Addition and Subtraction

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

a)

145	
98	47

b)

167	
49	118

2. Can you complete the addition or subtraction calculation for each bar using the given numbers?

a) 127+ 56 = _____

b) 182 - 47 = _____
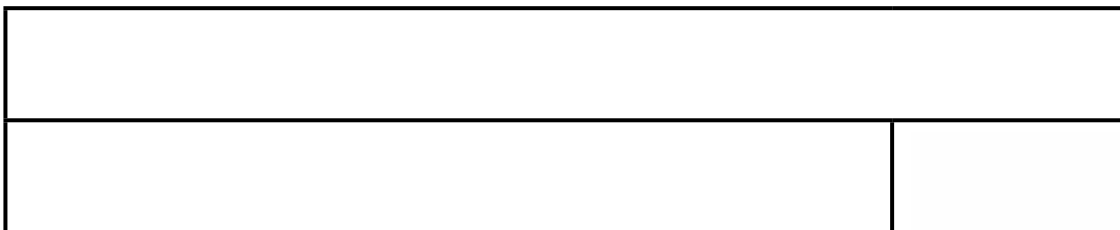
c) 200 - _____ = 76
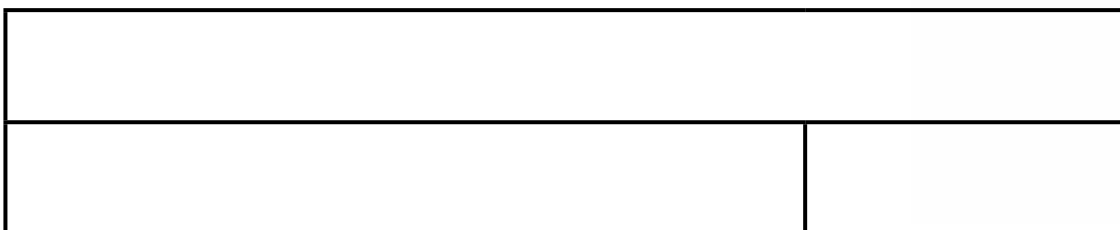
3. Now, complete the bar model below to help you to solve the problems. You will need to draw a line to split the bar model up into the correctly sized pieces.

   a) Sally has 86 football cards in her collection folder. The whole folder holds 155 football cards in total. How many more football cards does Sally need to complete her collection?

   b) The fish and chip shop had 58 haddocks in their freezer. The shopkeeper ordered another 125 haddocks from the wholesaler. How many haddocks do they now have in total?

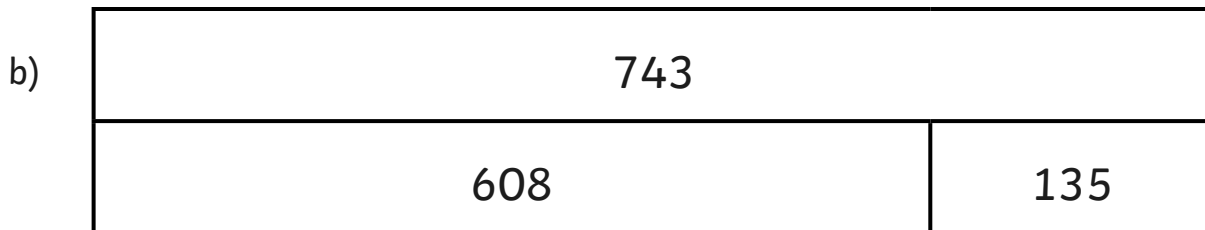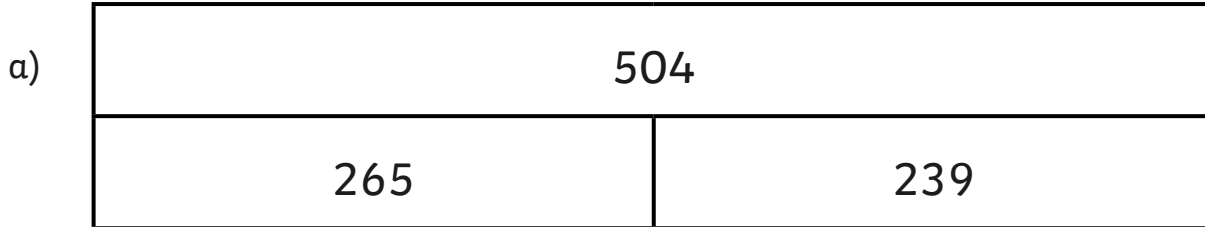 | |
   |--|
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   ## Challenge
   Now it's your turn...can you invent a word problem that involves the numbers 165, 87 and 78? Can you draw and label a bar model to help you **show** the maths in your chosen calculation?

Using Bar Models in Addition and Subtraction – **Answers**

| question	answer	question	answer
1.		**3.**	
a	Two calculations from: 98 + 47 = 145 47 + 98 = 145 145 – 47 = 98 145 – 98 = 47	a	155 cards to fill folder 155 86 / 69 Sally's cards / cards needed
b	Two calculations from: 49 + 118 = 167 118 + 49 = 167 167 – 49 = 118 167 – 118 = 49	b	183 total number of haddocks 183 38 / 125 haddocks in freezer / haddocks
2.		**Challenge**	
a	127 + 56 = 183 183 127 / 56		Any word problem and bar model relating to; 87 + 78 = 165 78 + 87 = 165 165 – 78 = 87 165 – 87 = 78
b	182 – 47 = 135 182 135 / 47		
c	200 – 124 = 76 200 124 / 76		

Using Bar Models in Addition and Subtraction

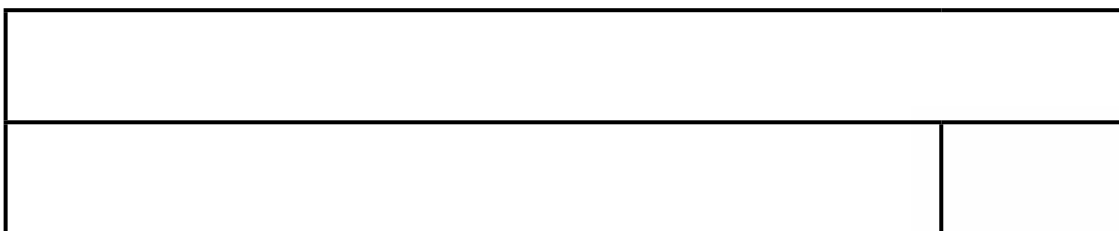1. Can you write an addition and a subtraction calculation for each bar using the given numbers?

a)

504	
265	239

b)

743	
608	135

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

a) 589 + 307 = _____
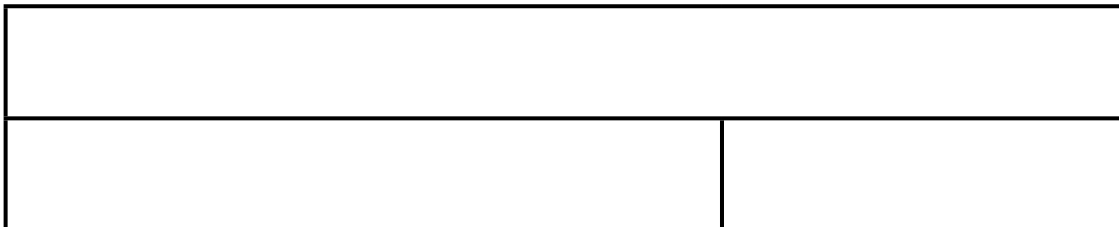
b) 678 - 546 = _____

c) 908 - _____ = 321
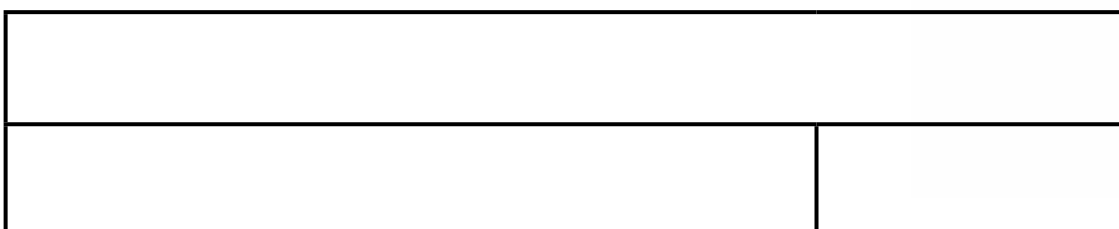
3. Now, draw a bar model in the space below the question to help you to solve the problems below.

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
1.		**3.**	
a	Two calculations from: 265 + 239 = 504 239 + 265 = 504 504 – 265 = 239 504 – 239 = 265	a	650 cards to fill folder 650 457 | 193 Sally's cards | cards needed
b	Two calculations from: 608 + 135 = 743 135 + 608 = 743 743 – 135 = 608 743 – 608 = 135	b	183 total number of haddocks 937 372 | 565 haddocks in freezer | haddocks
2.		**Challenge**	
a	589 +307 = 896 896 589 | 307		
b	678 – 546 = 132 678 546 | 132		Any word problem and bar model relating to; 587 + 178 = 765 178 + 587 = 765 765 – 178 = 587 765 – 587 = 178
c	908 – 587 = 321 908 587 | 321		