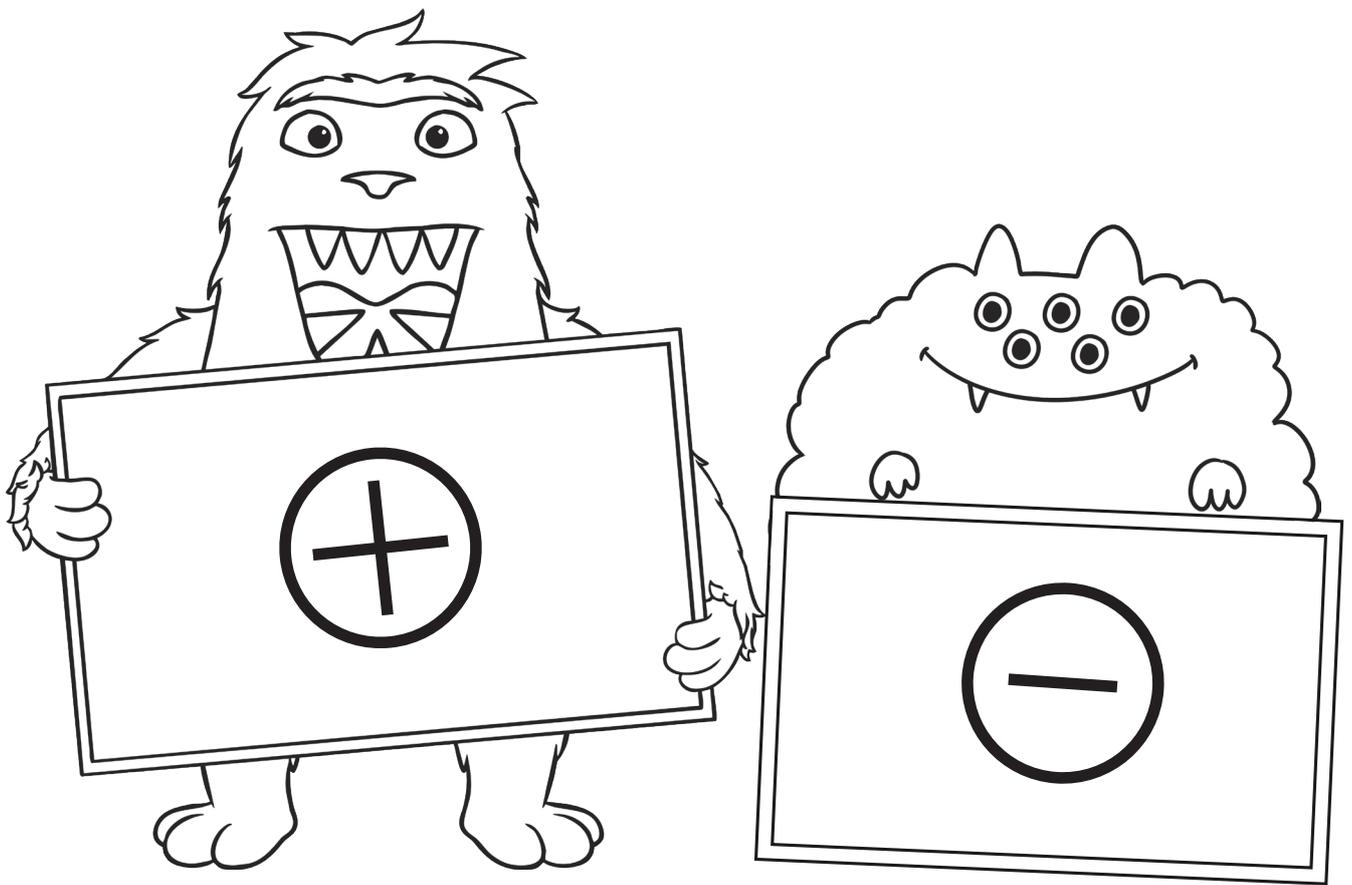


# Year 4 Maths Addition and Subtraction Workbook



# Year 4 Maths Addition and Subtraction Workbook

Year 4 Programme of Study – Addition and Subtraction

Statutory Requirements	Worksheet	Page Number	Notes
Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.	Large Numbers Addition Worksheet	3	
	Missing Number Three Digit Addition	4	
	Addition Pyramids Worksheet 2	5 - 7	
	Repeated Subtraction of a Factor	8	
	Find Missing Numbers in Column Subtraction Sums	9	
Estimate and use inverse operations to check answers to a calculation.	Estimate Answers Speed Challenge	10	
	Using Inverse Operations to check Addition and Subtraction Calculations	11	
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.	Multi-step Problems Around the World Flights	12	
	Solving Two Step Addition and Subtraction Word Problems	13 - 14	

# Large Numbers Addition Worksheet

$$\begin{array}{r} \text{a)} \quad 5122 \\ \quad 120 \\ + \quad 309 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{b)} \quad 440 \\ \quad 3055 \\ + \quad 123 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{c)} \quad 9999 \\ \quad 381 \\ + \quad 222 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{d)} \quad 79 \\ \quad 927 \\ + \quad 3748 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{e)} \quad 2378 \\ \quad 592 \\ + \quad 92 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{f)} \quad 2849 \\ \quad 81 \\ + \quad 317 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{g)} \quad 62 \\ \quad 5916 \\ + \quad 126 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{h)} \quad 5783 \\ \quad 3956 \\ + \quad 276 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{i)} \\ \quad 3769 \\ \quad 277 \\ + \quad 3358 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{j)} \quad 46 \\ \quad 6928 \\ \quad 94 \\ + \quad 197 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{k)} \quad 4924 \\ \quad 9376 \\ \quad 384 \\ + \quad 37 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{l)} \quad 9476 \\ \quad 83 \\ \quad 846 \\ + \quad 6254 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{m)} \quad 495 \\ \quad 8372 \\ \quad 86 \\ + \quad 2652 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{n)} \quad 8278 \\ \quad 6970 \\ \quad 384 \\ + \quad 93 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{o)} \quad 844 \\ \quad 9243 \\ \quad 393 \\ + \quad 23 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{p)} \quad 765 \\ \quad 6937 \\ \quad 926 \\ + \quad 2857 \\ \hline \\ \hline \end{array}$$

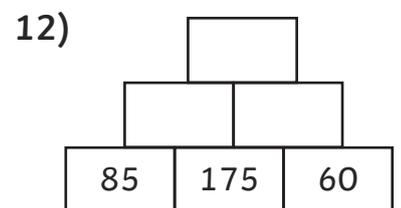
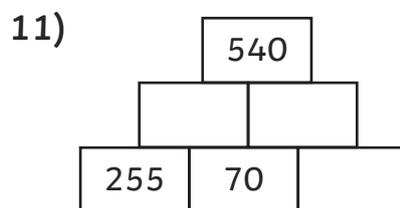
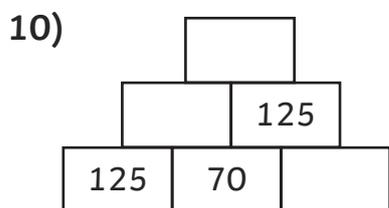
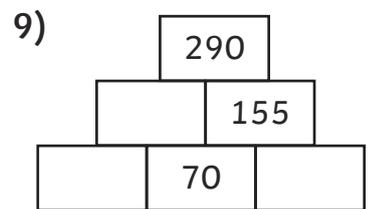
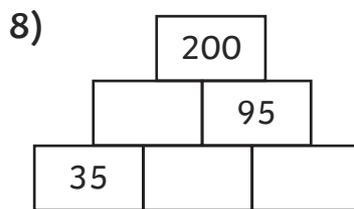
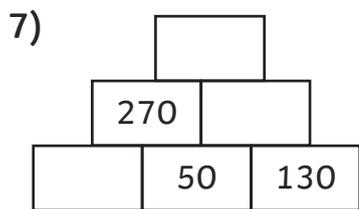
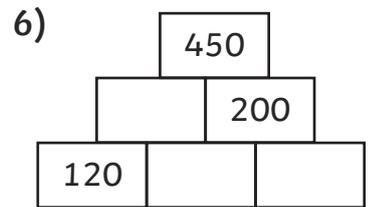
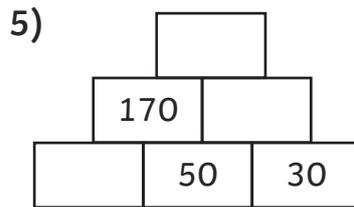
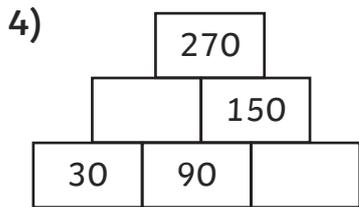
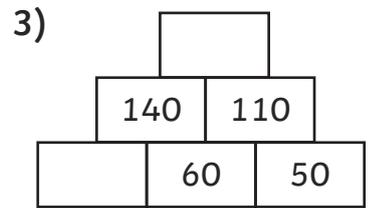
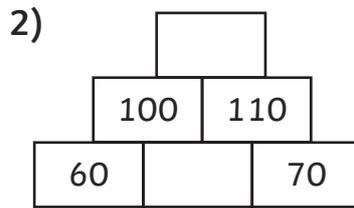
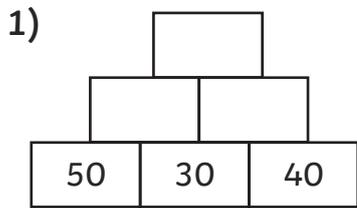
$$\begin{array}{r} \text{q)} \quad 6847 \\ \quad 946 \\ \quad 855 \\ + \quad 21 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{r)} \quad 846 \\ \quad 54 \\ \quad 365 \\ + \quad 2395 \\ \hline \\ \hline \end{array}$$



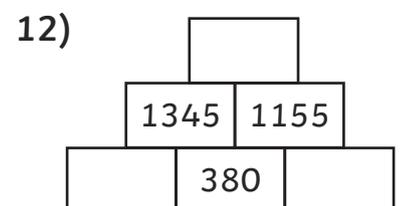
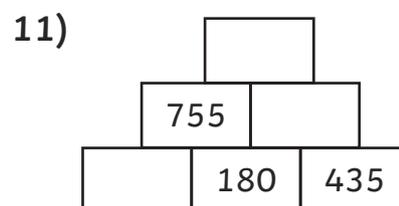
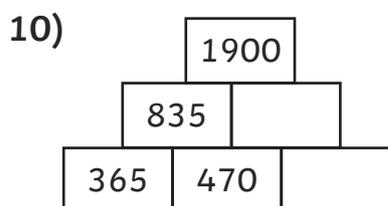
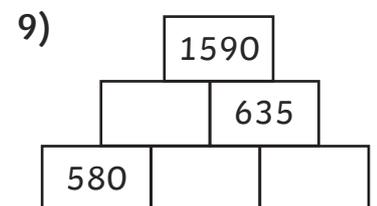
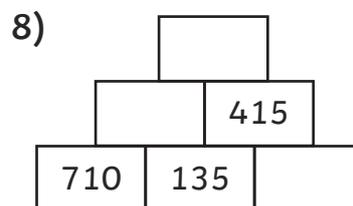
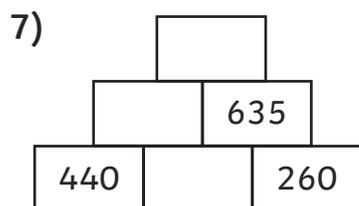
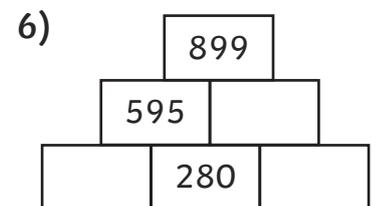
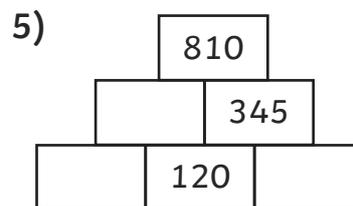
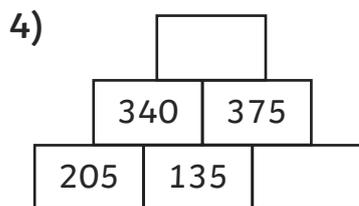
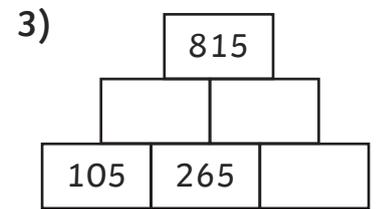
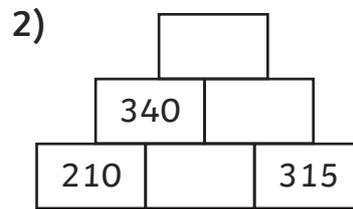
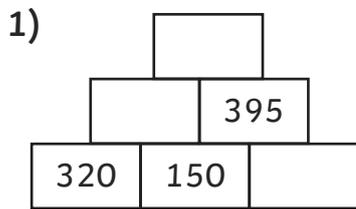
# Addition Pyramids Worksheet 1

Use addition and subtraction calculations to complete these pyramids. The first one has been done for you.



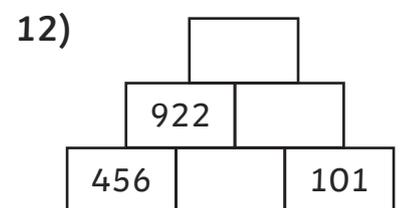
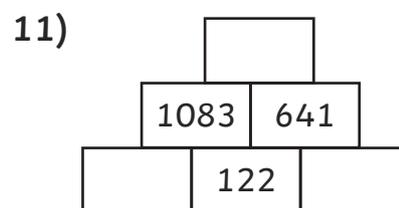
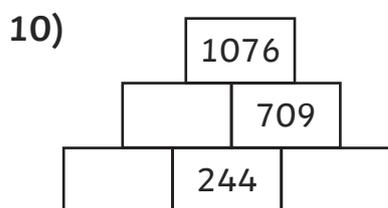
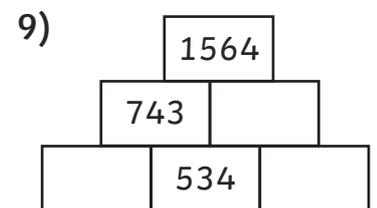
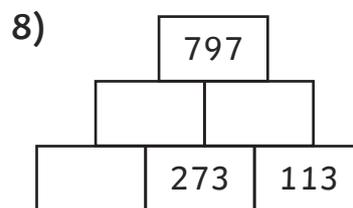
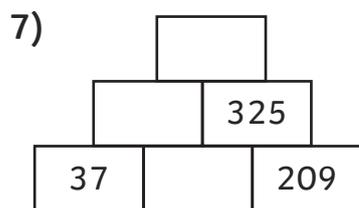
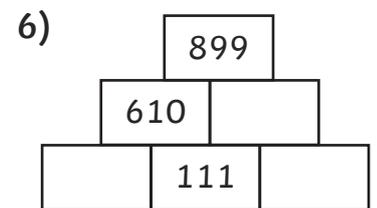
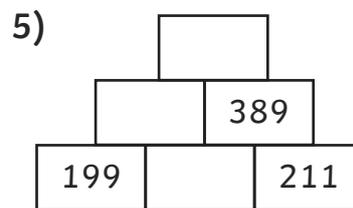
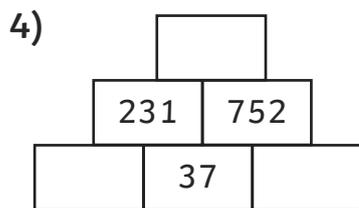
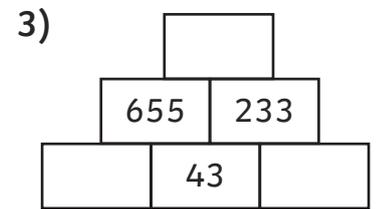
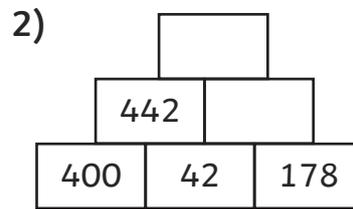
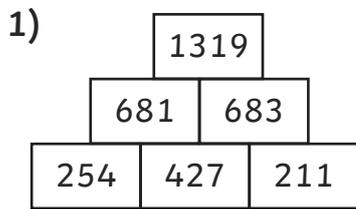
# Addition Pyramids Worksheet 2

Use addition and subtraction calculations to complete these pyramids. The first one has been done for you.



# Addition Pyramids Worksheet 3

Use addition and subtraction calculations to complete these pyramids. The first one has been done for you.



# Repeated Subtraction of a Factor

The numbers on the left in circles are multiples of the number on the right in boxes – keep subtracting the number in the boxes until you reach '0'. If you don't reach 0, check your answers to find out where you went wrong. You may need to jot some calculations down.

e.g.

64 - 16 48 - 16 32 - 16 16 - 16 0 - 16

136 - 34 ○ - 34 ○ - 34 ○ - 34 ○ 34

588 ○ ○ ○ ○ ○ ○ ○ 147

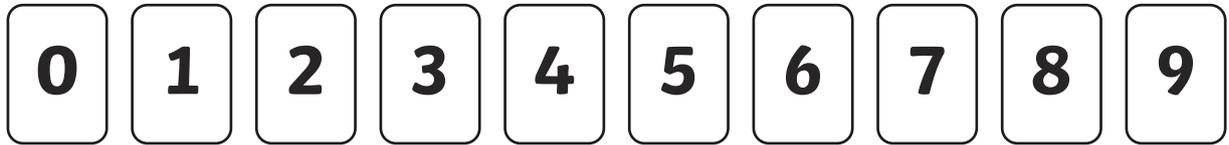
1488 ○ ○ ○ ○ ○ ○ ○ 362

1716 ○ ○ ○ ○ ○ ○ ○ 429

5704 ○ ○ ○ ○ ○ ○ ○ 1426

# Finding Missing Numbers in Column Subtraction Calculations

Use these digit cards just once to fill all of the gaps in the calculations.



$$\begin{array}{r} 657 \\ - 359 \\ \hline 29\Box \\ \hline \end{array}$$

$$\begin{array}{r} \Box3\Box \\ - 452 \\ \hline 284 \\ \hline \end{array}$$

$$\begin{array}{r} 871 \\ - 199 \\ \hline 67\Box \\ \hline \end{array}$$

$$\begin{array}{r} 91\Box \\ - 878 \\ \hline 41 \\ \hline \end{array}$$

$$\begin{array}{r} 1\Box69 \\ - 275 \\ \hline 1094 \\ \hline \end{array}$$

$$\begin{array}{r} 2612 \\ - 17\Box8 \\ \hline 854 \\ \hline \end{array}$$

$$\begin{array}{r} 3269 \\ - 1652 \\ \hline \Box617 \\ \hline \end{array}$$

$$\begin{array}{r} 5\Box12 \\ - 693 \\ \hline 4719 \\ \hline \end{array}$$

$$\begin{array}{r} 8\Box08 \\ - 4782 \\ \hline 3226 \\ \hline \end{array}$$

# Estimate Answers Speed Challenge

How many points can you score on the speed challenge? Set up a countdown timer for your chosen time limit and use your rounding skills to estimate the answers to as many questions as you can. When the time is up, check that your answers were in the allowable range. Score 1 point for each accurate estimate from list 1, 2 points from list 2, 3 points for list 3 and 4 points for list 4.

No extra points for fully correct answers!

Good luck!

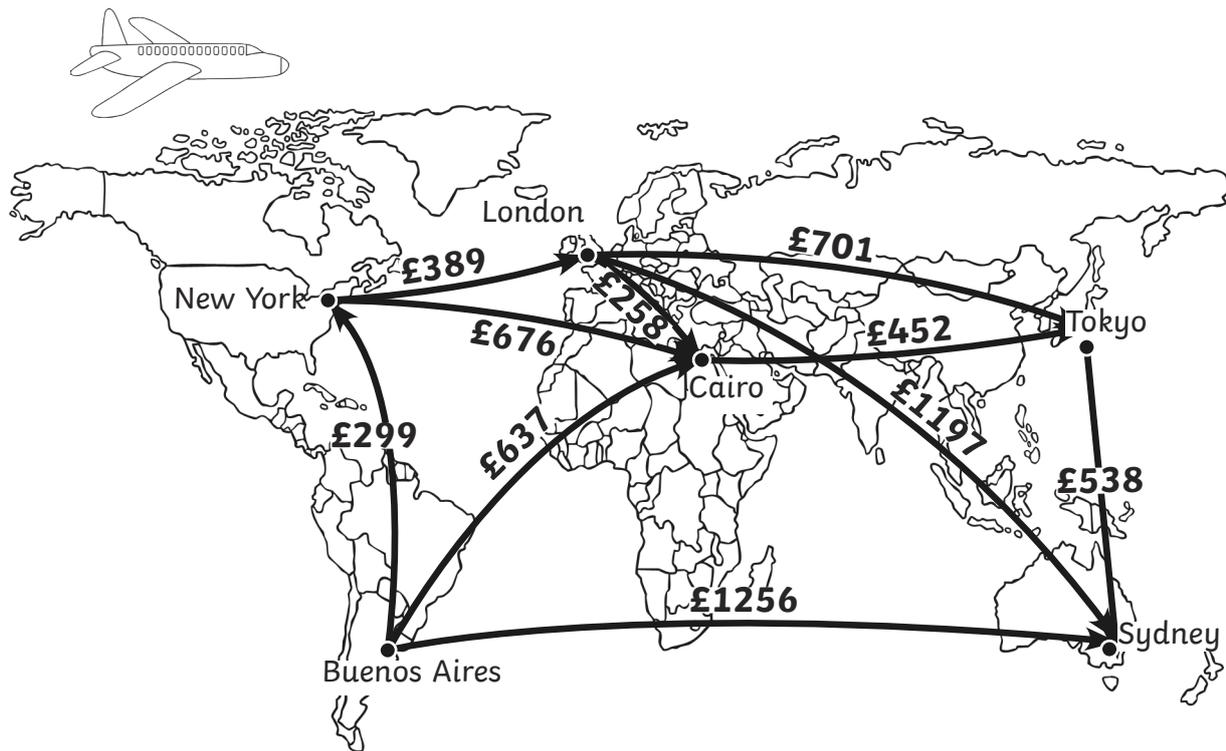
List 1	Estimate	List 2	Estimate	List 3	Estimate	List 4	Estimate
$17+39$		$43+128$		$123+104$		$1523+1026$	
$21+48$		$17+162$		$136+153$		$1789+2391$	
$33+59$		$29+194$		$178+329$		$3456+4567$	
$39+42$		$34+208$		$346+252$		$4028+3876$	
$58+78$		$67+254$		$276+217$		$5997 + 4302$	
$29+83$		$89+287$		$302+386$		$4808 + 3007$	
$44+99$		$98+355$		$457+342$		$4512 + 5490$	
$77+89$		$17+578$		$489+512$		$7 + 5674$	
$87+92$		$85+475$		$299+992$		$2987 + 7561$	
$98+97$		$78+967$		$342+876$		$4813 + 8564$	
Points:							

# Using Inverse Operations to Check Addition and Subtraction Calculations

Check the answers to these calculations using the inverse operation and mark them right or wrong!

	Calculation	Check with Inverse	Correct?
e.g.	$\begin{array}{r} 557 \\ - 278 \\ \hline 277 \end{array}$ <p style="text-align: right; margin-right: 20px;">work backwards!</p> 	$277 + 278 = 555$	Wrong!
1.	$\begin{array}{r} 87 \\ + 446 \\ \hline 459 \end{array}$		
2.	$\begin{array}{r} 144 \\ - 75 \\ \hline 69 \end{array}$		
3.	$\begin{array}{r} 367 \\ + 459 \\ \hline 826 \end{array}$		
4.	$\begin{array}{r} 674 \\ - 596 \\ \hline 182 \end{array}$		
5.	$\begin{array}{r} 286 \\ + 1378 \\ \hline 1662 \end{array}$		
6.	$\begin{array}{r} 1342 \\ - 478 \\ \hline 942 \end{array}$		
7.	$\begin{array}{r} 2786 \\ + 1512 \\ \hline 4299 \end{array}$		
8.	$\begin{array}{r} 2457 \\ - 1687 \\ \hline 770 \end{array}$		

# Around the World Flights



1. If Kim flies from New York to Cairo via London, how much change will she get from £1000?
2. Taj wants to fly from London to Sydney via Tokyo. How much will he save if he flies direct to Sydney?
3. For business class flights the price increases by £200 per flight. How much would it cost Joy to fly business class from London to Tokyo? How much change would she get from £1000?
4. Fernando lives in Buenos Aires and wants to go on holiday to Tokyo. Which would be the cheapest route for him to take?
5. Mirai wants to get from New York to Tokyo. What is the cheapest route for her to take?
6. Richard lives in London. He wants to visit Cairo and New York and return home. He only has £1500. Can he do it and if so how much will he have left?



No.	Question	Calculation required (Do brackets first!)	Method	Answer
3.	The crisp factory needs to make 875 bags an hour. If a machine breaks down and the factory only makes 323 bags in one hour, how many does it need to make in the next hour to catch up?			
4.	Dave earns £1485 a month as a bus driver and his wife earns £1760 as a teacher. If Dave gets a pay rise of £217 a month how much less than his wife does he earn?			
5.	If William Shakespeare was born in 1564 and lived to be 52 years old, how many years ago did he die?			