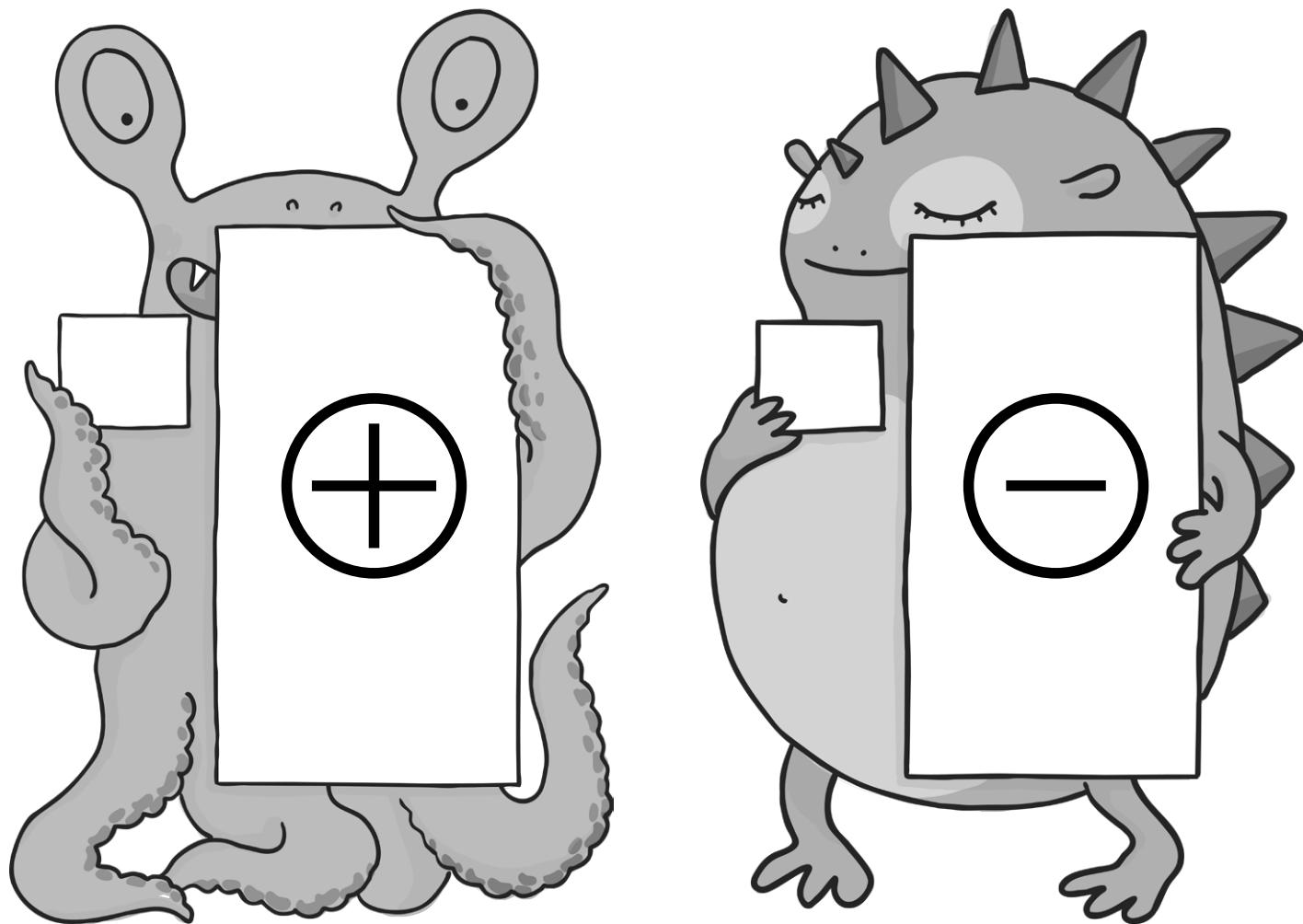


Year 4 Maths Addition and Subtraction Workbook



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 Missing Number Three Digit Addition Addition Pyramids Worksheet 2 Repeated Subtraction of a Factor Find Missing Numbers in Column Subtraction Sums	3 4 5 - 7 8 9	
Estimate and use inverse operations to check answers to a calculation	Estimate Answers Speed Challenge Using Inverse Operations to check Addition and Subtraction Calculations	10 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 Solving Two Step Addition and Subtraction Word Problems	12 13 - 14	

Large Numbers Addition Worksheet

a) 5122

120

+309

—

b) 440

3055

+123

—

c) 9999

927

592

—

d) 79

+3748

+92

—

e) 2378

81

+317

—

f) 2849

592

+317

—

g) 62

3916

+126

—

h) 5783

3956

+276

—

i) 3769

277

+3358

—

j) 46

6928

94

+197

—

k) 4924

83

834

+37

—

l) 9476

83

+6254

—

m) 495

8372

86

+2652

—

n) 8278

6970

384

+93

—

o) 844

9243

393

+23

—

p) 765

6937

926

+2857

—

q) 6847

946

855

+21

—

r) 846

54

365

+2395

—

Missing Number 3-Digit Addition

Calculate the missing numbers in these calculations.

$$\begin{array}{r} \underline{3} \ 8 \\ + \underline{4} \ \underline{7} \\ \hline 1 \ 2 \ 8 \ \underline{\quad} \end{array}$$

$$\begin{array}{r} 1 \ \underline{9} \\ + \underline{\quad} \ 8 \ \underline{\quad} \\ \hline 5 \ 2 \ 4 \end{array}$$

$$\begin{array}{r} 2 \ 7 \ \underline{\quad} \\ + \underline{8} \ \underline{8} \ \underline{\quad} \\ \hline \underline{\quad} \ 5 \ 2 \end{array}$$

$$\begin{array}{r} 7 \ 7 \ \underline{\quad} \\ + \underline{6} \ \underline{2} \ \underline{\quad} \\ \hline 1 \ 5 \ 4 \ \underline{\quad} \end{array}$$

$$\begin{array}{r} 8 \ \underline{6} \\ + \underline{\quad} \ 4 \ 4 \\ \hline 1 \ 2 \ 9 \ \underline{\quad} \end{array}$$

$$\begin{array}{r} 8 \ 9 \\ + \underline{2} \ \underline{1} \\ \hline 4 \ 5 \ \underline{\quad} \end{array}$$

$$\begin{array}{r} 3 \ 7 \ \underline{\quad} \\ + \underline{7} \ \underline{3} \ \underline{\quad} \\ \hline \underline{\quad} \ 3 \ 6 \end{array}$$

$$\begin{array}{r} 3 \ 1 \\ + \underline{9} \ 6 \ \underline{\quad} \\ \hline 1 \ 0 \ \underline{2} \end{array}$$

$$\begin{array}{r} 1 \ 2 \ \underline{\quad} \\ + \underline{6} \ 9 \ \underline{\quad} \\ \hline 1 \ 1 \ 5 \ \underline{\quad} \end{array}$$

$$\begin{array}{r} 8 \ 8 \\ + \underline{3} \ 5 \ \underline{\quad} \\ \hline 7 \ \underline{\quad} \ 7 \end{array}$$

$$\begin{array}{r} 2 \\ + \underline{6} \ 2 \ \underline{\quad} \\ \hline 1 \ 3 \ 4 \ 1 \end{array}$$

$$\begin{array}{r} 9 \ \underline{7} \\ + \underline{6} \ \underline{\quad} \ \underline{\quad} \\ \hline 1 \ 2 \ 9 \ 4 \end{array}$$

$$\begin{array}{r} 9 \ \underline{\quad} \ \underline{\quad} \\ + \underline{\quad} \ 3 \ 1 \ \underline{\quad} \\ \hline 1 \ 8 \ 5 \ 7 \end{array}$$

$$\begin{array}{r} 9 \ \underline{0} \\ + \underline{3} \ 1 \ \underline{\quad} \\ \hline \underline{\quad} \ 1 \ 8 \end{array}$$

$$\begin{array}{r} 8 \ \underline{8} \\ + \underline{2} \ \underline{\quad} \ \underline{\quad} \\ \hline 1 \ 5 \ 0 \ 5 \end{array}$$

$$\begin{array}{r} 9 \ 1 \ \underline{\quad} \\ + \underline{3} \ \underline{5} \ \underline{\quad} \\ \hline \underline{\quad} \ 2 \ 4 \end{array}$$

$$\begin{array}{r} 5 \ \underline{0} \\ + \underline{\quad} \ 8 \ 3 \ \underline{\quad} \\ \hline 1 \ 4 \ 0 \ \underline{\quad} \end{array}$$

$$\begin{array}{r} 6 \ \underline{\quad} \ \underline{\quad} \\ + \underline{\quad} \ 4 \ 5 \ \underline{\quad} \\ \hline 1 \ 6 \ 0 \ 8 \end{array}$$

$$\begin{array}{r} 0 \ 9 \\ + \underline{7} \ \underline{\quad} \ \underline{\quad} \\ \hline 9 \ 8 \ 9 \end{array}$$

$$\begin{array}{r} 1 \ \underline{5} \\ + \underline{\quad} \ 3 \ 6 \ \underline{\quad} \\ \hline 8 \ 5 \ \underline{\quad} \end{array}$$

$$\begin{array}{r} 5 \ 5 \\ + \underline{5} \ \underline{1} \\ \hline \underline{\quad} \ 7 \ 6 \end{array}$$

$$\begin{array}{r} 5 \ 3 \ \underline{\quad} \\ + \underline{8} \ \underline{9} \ \underline{\quad} \\ \hline \underline{\quad} \ 7 \ 9 \end{array}$$

$$\begin{array}{r} 7 \ 0 \ \underline{\quad} \\ + \underline{1} \ \underline{5} \ \underline{\quad} \\ \hline \underline{\quad} \ 8 \ 8 \end{array}$$

$$\begin{array}{r} 6 \ 4 \ \underline{\quad} \\ + \underline{5} \ \underline{8} \ \underline{\quad} \\ \hline \underline{\quad} \ 8 \ 2 \end{array}$$

$$\begin{array}{r} 3 \ \underline{9} \\ + \underline{7} \ \underline{\quad} \ \underline{\quad} \\ \hline 1 \ 0 \ 3 \ 2 \end{array}$$

$$\begin{array}{r} 9 \ \underline{8} \\ + \underline{\quad} \ 4 \ 1 \\ \hline 1 \ 7 \ 6 \ \underline{\quad} \end{array}$$

$$\begin{array}{r} 3 \ \underline{2} \\ + \underline{\quad} \ 2 \ \underline{\quad} \\ \hline 5 \ 7 \ 7 \end{array}$$

$$\begin{array}{r} 9 \ \underline{1} \\ + \underline{\quad} \ 2 \ 8 \ \underline{\quad} \\ \hline 1 \ 6 \ 3 \ \underline{\quad} \end{array}$$

$$\begin{array}{r} 9 \ 7 \\ + \underline{5} \ \underline{1} \ \underline{\quad} \\ \hline 7 \ 6 \ \underline{\quad} \end{array}$$

$$\begin{array}{r} 4 \ 3 \ 4 \\ + \underline{8} \ \underline{\quad} \ \underline{\quad} \\ \hline \underline{\quad} \ 5 \ 8 \end{array}$$

Addition Pyramids Worksheet 1

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

1. **1319**

681 **638**

254 **427** **211**

2.

442

400 **42** **178**

3.

645 **233**

43 **37**

4.

231 **752**

37 **37**

5.

1319

254 **427** **211**

6.

899

400 **42** **178**

7.

610

43 **37**

8.

231 **752**

37 **37**

9.

1564

254 **427** **211**

10.

1076

400 **42** **178**

11.

325

43 **37**

12.

797

37 **37**

13.

1083 **641**

254 **427** **211**

14.

922

400 **42** **178**

15.

456

43 **37**

Addition Pyramids Worksheet 2

Use addition and subtraction calculations to complete these pyramids.



50	30	40
----	----	----



60	70
----	----



60	50
----	----



30	90
----	----



50	30
----	----



120	200
-----	-----



50	130
----	-----



35	95
----	----



155	70
-----	----



125	200
-----	-----



125	255
-----	-----



85	175
----	-----

Addition Pyramids Worksheet 3

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

1. $\begin{array}{r} \boxed{ } \\ \boxed{ } \\ \boxed{ } \\ \boxed{395} \end{array}$

2. $\begin{array}{r} \boxed{ } \\ \boxed{ } \\ \boxed{ } \\ \boxed{340} \end{array}$

3. $\begin{array}{r} \boxed{815} \\ \boxed{ } \\ \boxed{ } \\ \boxed{ } \end{array}$

4. $\begin{array}{r} \boxed{ } \\ \boxed{ } \\ \boxed{ } \\ \boxed{340} \end{array}$

$\begin{array}{r} \boxed{320} \\ \boxed{150} \\ \boxed{ } \\ \boxed{395} \end{array}$

$\begin{array}{r} \boxed{210} \\ \boxed{ } \\ \boxed{ } \\ \boxed{315} \end{array}$

$\begin{array}{r} \boxed{105} \\ \boxed{265} \\ \boxed{ } \\ \boxed{ } \end{array}$

$\begin{array}{r} \boxed{205} \\ \boxed{135} \\ \boxed{ } \\ \boxed{ } \end{array}$

5. $\begin{array}{r} \boxed{810} \\ \boxed{ } \\ \boxed{ } \\ \boxed{345} \end{array}$

6. $\begin{array}{r} \boxed{899} \\ \boxed{ } \\ \boxed{ } \\ \boxed{595} \end{array}$

7. $\begin{array}{r} \boxed{ } \\ \boxed{ } \\ \boxed{ } \\ \boxed{635} \end{array}$

8. $\begin{array}{r} \boxed{ } \\ \boxed{ } \\ \boxed{ } \\ \boxed{415} \end{array}$

$\begin{array}{r} \boxed{ } \\ \boxed{ } \\ \boxed{120} \\ \boxed{ } \end{array}$

$\begin{array}{r} \boxed{ } \\ \boxed{ } \\ \boxed{280} \\ \boxed{595} \end{array}$

$\begin{array}{r} \boxed{ } \\ \boxed{ } \\ \boxed{260} \\ \boxed{440} \end{array}$

$\begin{array}{r} \boxed{ } \\ \boxed{ } \\ \boxed{135} \\ \boxed{710} \end{array}$

9. $\begin{array}{r} \boxed{1590} \\ \boxed{ } \\ \boxed{ } \\ \boxed{635} \end{array}$

10. $\begin{array}{r} \boxed{1900} \\ \boxed{ } \\ \boxed{ } \\ \boxed{835} \end{array}$

11. $\begin{array}{r} \boxed{ } \\ \boxed{ } \\ \boxed{ } \\ \boxed{755} \end{array}$

12. $\begin{array}{r} \boxed{ } \\ \boxed{ } \\ \boxed{ } \\ \boxed{1345} \end{array}$

$\begin{array}{r} \boxed{580} \\ \boxed{ } \\ \boxed{ } \\ \boxed{ } \end{array}$

$\begin{array}{r} \boxed{365} \\ \boxed{470} \\ \boxed{ } \\ \boxed{835} \end{array}$

$\begin{array}{r} \boxed{ } \\ \boxed{ } \\ \boxed{180} \\ \boxed{710} \end{array}$

$\begin{array}{r} \boxed{ } \\ \boxed{ } \\ \boxed{435} \\ \boxed{1345} \end{array}$

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.

6

49

1

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-
9

48

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1

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4

1
9

91

4

19

0

34

1426

429

۲۹۳

147

Finding Missing Numbers in Column Subtraction Calculations

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



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

$$\begin{array}{r} \square 3 \square \\ - 452 \\ \hline 284 \end{array}$$

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

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

$$\begin{array}{r} 1\square 69 \\ - 275 \\ \hline 1094 \end{array}$$

$$\begin{array}{r} 2612 \\ - 17\square 8 \\ \hline 854 \end{array}$$

$$\begin{array}{r} 3269 \\ - 1652 \\ \hline \square 617 \end{array}$$

$$\begin{array}{r} 5\square 12 \\ - 693 \\ \hline 4719 \end{array}$$

$$\begin{array}{r} 8\square 08 \\ - 4782 \\ \hline 3226 \end{array}$$

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!

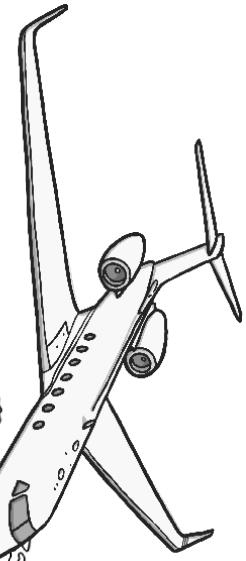
List 1	Estimate	List 2	Estimate	List 3	Estimate	List 4	Estimate
1.	17 + 39		43 + 128		123 + 104		1523 + 1026
2.	21 + 48			17 + 162		136 + 153	1789 + 2391
3.	33 + 59			29 + 194		178 + 329	3456 + 4567
4.	39 + 42			34 + 208		346 + 252	4028 + 3876
5.	58 + 78			67 + 254		276 + 217	5997 + 4302
6.	29 + 83			89 + 287		302 + 386	4808 + 3007
7.	44 + 99			98 + 355		457 + 342	4512 + 5490
8.	77 + 89			17 + 578		489 + 512	7 + 5674
9.	87 + 92			85 + 475		299 + 992	2987 + 7561
10.	98 + 97			78 + 967		342 + 876	4813 + 8564
	Points:						

Using Inverse Operations to Check Addition and Subtraction Calculations

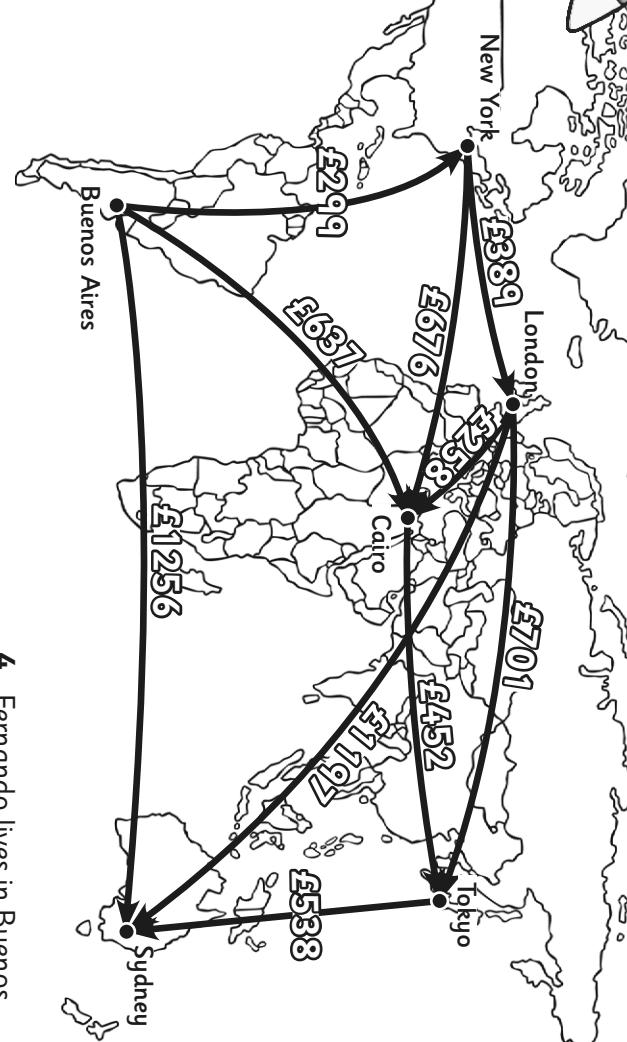
Check the answers to these calculations using the inverse operation and mark them right or wrong!

	Calculation	Check with Inverse	Correct?
e.g.	$ \begin{array}{r} 5 \ 5 \ 7 \\ - 2 \ 7 \ 8 \\ \hline 2 \ 7 \ 7 \end{array} $ <p style="text-align: center; margin-left: 100px;">work backwards!</p>	$277 + 278 = 555$	Wrong!
1.	$ \begin{array}{r} 8 \ 7 \\ + 4 \ 4 \ 6 \\ \hline 4 \ 5 \ 9 \end{array} $		
2.	$ \begin{array}{r} 1 \ 4 \ 4 \\ - 7 \ 5 \\ \hline 6 \ 9 \end{array} $		
3.	$ \begin{array}{r} 3 \ 6 \ 7 \\ + 4 \ 5 \ 9 \\ \hline 8 \ 2 \ 6 \end{array} $		
4.	$ \begin{array}{r} 6 \ 7 \ 4 \\ - 5 \ 9 \ 6 \\ \hline 1 \ 8 \ 2 \end{array} $		
5.	$ \begin{array}{r} 2 \ 8 \ 6 \\ + 1 \ 3 \ 7 \ 8 \\ \hline 1 \ 6 \ 6 \ 2 \end{array} $		
6.	$ \begin{array}{r} 1 \ 3 \ 4 \ 2 \\ - 4 \ 7 \ 8 \\ \hline 9 \ 4 \ 2 \end{array} $		
7.	$ \begin{array}{r} 2 \ 7 \ 8 \ 6 \\ + 1 \ 5 \ 1 \ 2 \\ \hline 4 \ 2 \ 9 \ 9 \end{array} $		
8.	$ \begin{array}{r} 2 \ 4 \ 5 \ 7 \\ - 1 \ 6 \ 8 \ 7 \\ \hline 7 \ 7 \ 0 \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 Africa and America and return home. He only has £1500. Can he do it and if so how much will he have left?



Solving Two Step Addition and Subtraction Word Problems

No.	Question	Calculation required (Do brackets first!)	Method	Answer																														
e.g.	The cinema has 700 seats – 113 adults and 276 children come to see the film. How many empty seats are there?	$700 - (113 + 276)$	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td>1</td><td>3</td><td>7</td><td>6</td><td>9</td></tr> <tr><td>2</td><td>7</td><td>6</td><td>0</td><td>0</td><td>1</td></tr> <tr><td>+ </td><td> </td><td> </td><td>-</td><td>3</td><td>8</td></tr> <tr><td>3</td><td>8</td><td>9</td><td>3</td><td>8</td><td>9</td></tr> <tr><td> </td><td> </td><td> </td><td>3</td><td>1</td><td>1</td></tr> </table>	1	1	3	7	6	9	2	7	6	0	0	1	+			-	3	8	3	8	9	3	8	9				3	1	1	
1	1	3	7	6	9																													
2	7	6	0	0	1																													
+			-	3	8																													
3	8	9	3	8	9																													
			3	1	1																													
1.	Dorothy is saving her money for a new bike costing £286. If she has already saved £39 and is then given £59 for her birthday, how much more does she need to save?																																	
2.	A study of 900 people found that 687 were right handed, 174 were left handed and the remainder were ambidextrous (could use either hand). How many were ambidextrous?																																	

<p>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?</p>	<p>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?</p>		
	<p>5. If William Shakespeare was born in 1564 and lived to be 52 years old, how many years ago did he die?</p>		