

- 1) Use the place value grids to solve the calculations involving 4-digit numbers. Draw counters in each box to help you, as shown in question a).



a)

2346 + 1213			
Thousands	Hundreds	Tens	Ones
● ●	● ● ●	● ● ● ●	● ● ● ● ● ●
●	● ●	●	● ● ●

b)

5183 + 3704			
Thousands	Hundreds	Tens	Ones

c)

1003 + 7263			
Thousands	Hundreds	Tens	Ones

d)

419 + 2570			
Thousands	Hundreds	Tens	Ones

- 2) Match the calculations to their answers.

3406 + 211 =

5299

2033 + 3265 =

5298

4157 + 1142 =

3657

546 + 3111 =

3617

- 1) Use the place value grids to solve the calculations involving 4-digit numbers. Draw counters in each box to help you, as shown in question a).



a)

2346 + 1213			
Thousands	Hundreds	Tens	Ones
● ●	● ● ●	● ● ● ●	● ● ● ● ● ●
●	● ●	●	● ● ●

b)

5183 + 3704			
Thousands	Hundreds	Tens	Ones

c)

1003 + 7263			
Thousands	Hundreds	Tens	Ones

d)

419 + 2570			
Thousands	Hundreds	Tens	Ones

- 2) Match the calculations to their answers.

3406 + 211 =

5299

2033 + 3265 =

5298

4157 + 1142 =

3657

546 + 3111 =

3617

- 1) Polly and Graham are working on a calculation together. They both get different answers. Are either of them correct? Explain your reasoning.



6216 + 3672			
Thousands	Hundreds	Tens	Ones
● ● ●	● ●	●	● ● ●
● ● ●			● ● ●
● ● ●	● ● ●	● ● ●	● ●
	● ● ●	● ● ●	
		●	

Polly

I think the answer is 8888.

Graham

I think the answer is 9898.



- 2) Malak works on this calculation with missing numbers. Has she found the missing digits correctly? Explain your reasoning.

	5	1	8	□
+	2	□	1	0
	□	7	9	4

The missing ones digit is 4, the missing hundreds digit is 6 and the missing thousands digit is 7.



- 3) Ola has set her calculation out on the place value chart below. Can you check her work and give her some top tips to explain how she could improve?

$$823 + 1164 = 9394$$

Thousands	Hundreds	Tens	Ones
● ● ●	● ●	● ● ●	
● ● ●			
● ● ●			
●	●	● ● ●	● ● ●
		● ● ●	●
9	3	9	4

- 1) Polly and Graham are working on a calculation together. They both get different answers. Are either of them correct? Explain your reasoning.



6216 + 3672			
Thousands	Hundreds	Tens	Ones
● ● ●	● ●	●	● ● ●
● ● ●			● ● ●
● ● ●	● ● ●	● ● ●	● ●
	● ● ●	● ● ●	
		●	

Polly

I think the answer is 8888.

Graham

I think the answer is 9898.



- 2) Malak works on this calculation with missing numbers. Has she found the missing digits correctly? Explain your reasoning.

	5	1	8	□
+	2	□	1	0
	□	7	9	4

The missing ones digit is 4, the missing hundreds digit is 6 and the missing thousands digit is 7.



- 3) Ola has set her calculation out on the place value chart below. Can you check her work and give her some top tips to explain how she could improve?

$$823 + 1164 = 9394$$

Thousands	Hundreds	Tens	Ones
● ● ●	● ●	● ● ●	
● ● ●			
● ● ●			
●	●	● ● ●	● ● ●
		● ● ●	●
9	3	9	4

- 1) Alice is thinking of 2 numbers. They add up to 7654. Each of the numbers in the question has 2 odd digits and 2 even digits.



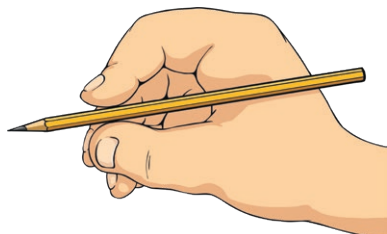
What could the numbers be? How many possibilities can you find?



- 2) At least 3 of the missing numbers in this calculation are odd.

Can you find 3 different possibilities for the missing numbers in this calculation?

$$\begin{array}{r} \\ \\ + \\ \hline \end{array}$$



- 1) Alice is thinking of 2 numbers. They add up to 7654. Each of the numbers in the question has 2 odd digits and 2 even digits.



What could the numbers be? How many possibilities can you find?



- 2) At least 3 of the missing numbers in this calculation are odd.

Can you find 3 different possibilities for the missing numbers in this calculation?

$$\begin{array}{r} \\ \\ + \\ \hline \end{array}$$

