Multiply 4 Digits by 1 Digit

1a. George solved the calculation below and thinks the answer is 7,642.

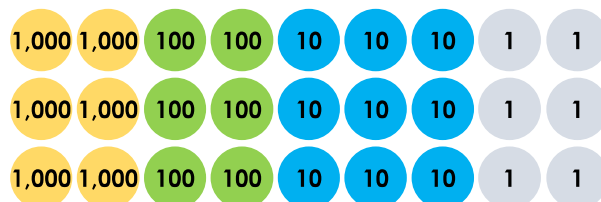|	4	3	2	1
x				2

Identify his mistake.

Multiply 4 Digits by 1 Digit

1b. Deb solved the calculation below and thinks the answer is 6,693.

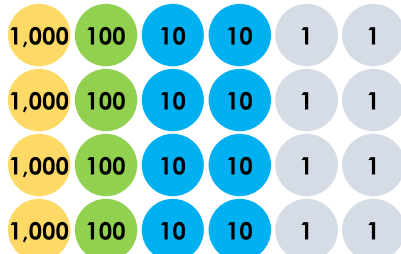|	2	2	3	2
x				3

Identify her mistake.

2a. Work out the missing numbers. Use the place value counters to help you.

	1	☐	2	2
x				4
	☐	4	☐	8

2b. Work out the missing numbers. Use the place value counters to help you.

	☐	2	1	☐
x				2
	2	☐	2	8

3a. A PC costs £1,321. Mr Costo buys 3 for his business. He says the total cost is £3,963.

x				

Is he correct? Prove it by completing the representation and the calculation.

3b. A family holiday costs £2,431. Mrs Juarez says the total cost for 2 families is £2,861.

x				

Is she correct? Prove it by completing the representation and the calculation.

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Reasoning and Problem Solving – Multiply 4 Digits by 1 Digit – Year 5 Developing

Multiply 4 Digits by 1 Digit

4a. Aslaan solved the calculation below and thinks the answer is 21,323.

7,141 x 3

Th	H	T	O

Complete the calculation using a formal method to identify his mistake.

PS

4b. Chara solved the calculation below and thinks the answer is 3,254.

8,126 x 4

Th	H	T	O

Complete the calculation using a formal method to identify her mistake.

PS

5a. Work out the missing numbers. Use the place value chart to help you.

Th	H	T	O

```
      2   4  [ ]  6
  x           3
     [ ]  2   4  [ ]
           1      1
```

PS

5b. Work out the missing numbers. Use the place value chart to help you.

Th	H	T	O

```
      7   0   8  [ ]
  x               2
     [ ]  4  [ ]  6   8
               1
```

PS

6a. A set of desks costs £2,705. Mrs Rouse buys 4 sets for her school. She says the total cost is £10,820.

Th	H	T	O

Is she correct? Complete the chart and use a formal method to prove it.

R

6b. A new driveway costs £4,862. Mr North is asked to pave 3 driveways. He says the total cost is £14,486.

Th	H	T	O

Is he correct? Complete the chart and use a formal method to prove it.

R

Reasoning and Problem Solving – Multiply 4 Digits by 1 Digit – Year 5 Expected

Multiply 4 Digits by 1 Digit

Multiply 4 Digits by 1 Digit

7a. Cassie solved the calculation below and thinks the answer is 10,808.

5,207 x 4

Th	H	T	O

Complete the calculation using a formal method to identify her mistake.

⭐GD

PS

7b. Sanjay solved the calculation below and thinks the answer is 72,134.

8,126 x 9

Th	H	T	O

Complete the calculation using a formal method to identify his mistake.

⭐GD

PS

8a. Work out the missing numbers. Use the place value chart to help you.

Th	H	T	O

```
      7   1  [ ]   8
  x              [ ]
  _____
[ ]   2   6   4   8
              4
```

⭐GD

PS

8b. Work out the missing numbers. Use the place value chart to help you.

Th	H	T	O

```
 [ ]   7   8  [ ]
  x               7
  _____
  1   9   4  [ ]   0
      5   5
```

⭐GD

PS

9a. A family car costs £4,174. Mr Jones says the total cost of 4 family cars will be £16,696.

Th	H	T	O

```
      x
  _____
  _____
```

Is he correct? Prove it.

⭐GD

R

9b. A TV package costs £1,991. Mrs Sajjad says the total cost of 6 packages will be £11,446.

Th	H	T	O

```
      x
  _____
  _____
```

Is she correct? Prove it.

⭐GD

R