



1 Dora makes a number on a place value chart.

| Th | H | T | O |
|----|---|---|---|
| | | | |

- a) What number has Dora made?
- b) Add 3 ones to Dora's number.
What number do you have?
- c) Add 2 tens to Dora's number.
What number do you have now?
- d) Subtract 2 hundreds from Dora's number.
What number do you have now?
- e) Add 5 thousands to Dora's number.
What number do you have now?

2 Complete the calculations.

Use the place value chart to help you.

| 1,000s | 100s | 10s | 1s |
|--------|------|-----|----|
| 5 | 3 | 7 | 8 |

- a) $5,378 + 200 =$ e) $5,378 - 60 =$
- b) $5,378 + 20 =$ f) $5,378 - 3,000 =$
- c) $5,378 + 2,000 =$ g) $300 + 5,378 =$
- d) $5,378 - 6 =$ h) $5,378 - 300 =$

3 Complete the calculations.

- a) $6,058 + 1 =$ b) $6,058 + 20 =$
- $6,058 + 2 =$ $6,058 + 30 =$
- $6,058 + 3 =$ $6,058 + 40 =$
- $6,058 + 4 =$ $6,058 + 50 =$
- $5 + 6,058 =$ $60 + 6,058 =$

4 Mo is going to add 100 to each number.

Circle the numbers where the 1,000s will change.

2,450 3,928 4,180 5,905 972

What do you notice?



5 Mr Hall has £1,342 in the bank.

a) Mr Hall puts in £500 more.

How much money does he have in the bank now?



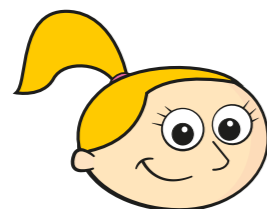
b) Then he puts in £600 more.

How much money does Mr Hall have in the bank now?

c) Then Mr Hall takes out £60

How much money does he have in the bank now?

6 Is Eva correct?



If I keep taking ten away from the number 2,562 only the tens will change.



7 Write the missing numbers.

a) $6,951 - \square = 6,921$ c) $1,706 + \square = 1,766$

$6,951 - \square = 6,881$ $1,706 - \square = 906$

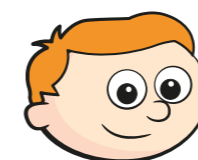
b) $6,421 - 700 = \square$ d) $3,500 - \square = 2,700$

$6,421 + 700 = \square$ $3,500 - \square = 3,430$

Which calculations were easy to work out?

Which were more difficult to work out?

8



To add 3,812 and 1,400 together, you can add 1,000 to 3,812 and then add 400

a) Use Ron's method to work out $3,812 + 1,400$

Could you have worked this out mentally?

b) Use Ron's method to complete the calculations.

$1,780 + 2,200 = \square$

$3,084 + 720 = \square$

$591 + 2,820 = \square$

Add two 4-digit numbers – no exchange

1 Calculate $314 + 522$

Use the place value chart to help you.

| H | T | O |
|---------------------------|-------|------------|
| 100 100 100 | 10 | 1 1 1 1 |
| 100 100 100 100 100 | 10 10 | 1 1 |

$314 + 522 =$

2 a) Calculate $3,214 + 5,122$

Use the place value chart to help you.

| Th | H | T | O |
|-------------------------------------|---------|-------|------------|
| 1,000 1,000 1,000 | 100 100 | 10 | 1 1 1 1 |
| 1,000 1,000 1,000 1,000 1,000 | 100 | 10 10 | 1 1 |

$3,214 + 5,122 =$



b) Now calculate $3,214 + 122$ in the same way.

$3,214 + 122 =$

c) What do you notice about your answers to part a) and part b)?

3 Complete the calculations.

a) $4,122 + 2,605 =$

b) $3,709 + 4,160 =$

c) $247 + 1,032 =$

d) $3,007 + 560 =$

4 Alex is calculating $5,702 + 125$

| | Th | H | T | O |
|---|----|---|---|---|
| | 5 | 7 | 0 | 2 |
| + | 1 | 2 | 5 | |
| | 6 | 9 | 5 | 2 |

Do you agree with Alex? _____

Explain your answer.

Complete the calculation.

$5,702 + 125 =$

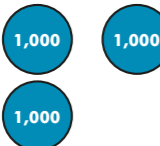


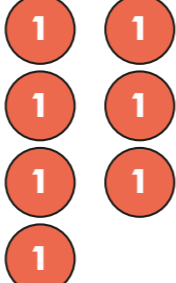
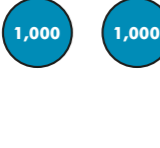
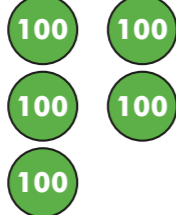
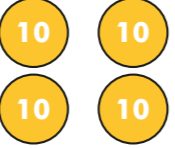



Add two 4-digit numbers – one exchange

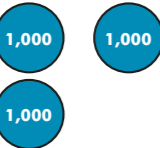


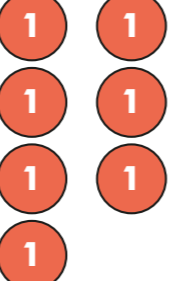

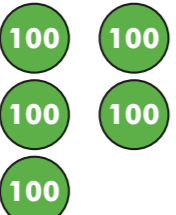


1 Complete the calculations.

Use the place value charts to help you.

a) $3,117 + 2,542 =$

| Th | H | T | O |
|---|---|---|---|
|  |  |  |  |
|  |  |  |  |

b) $3,117 + 2,544 =$

| Th | H | T | O |
|---|---|---|---|
|  |  |  |  |
|  |  |  |  |

c) What do you notice about the calculations in part a) and part b)?

Which did you find easier and why?

d) What happens when you have more than 10 counters in one column?

2 Complete the calculations.

a) $4,365 + 2,617 =$

b) $1,907 + 5,068 =$

c) $6,792 + 163 =$

d) $3,247 + 1,930 =$

3 Complete the calculations.

a)

| | Th | H | T | O |
|-------|----|---|---|---|
| | 5 | 1 | 6 | 3 |
| + | 2 | 4 | 5 | 1 |
| <hr/> | | | | |
| <hr/> | | | | |

b)

| | Th | H | T | O |
|-------|----|---|---|---|
| | 7 | 2 | 6 | 1 |
| + | 1 | 0 | 2 | 9 |
| <hr/> | | | | |
| <hr/> | | | | |

c)

| | | Th | H | T | O |
|-------|---|----|---|---|---|
| | | | 7 | 0 | 3 |
| | + | 2 | 5 | 8 | 0 |
| <hr/> | | | | | |
| | | | | | |

d)

| | | Th | H | T | O |
|-------|---|----|---|---|---|
| | | 3 | 5 | 0 | 8 |
| | + | 2 | 7 | 3 | 1 |
| <hr/> | | | | | |
| | | | | | |

4 Four children have calculated $4,635 + 183$

Rosie's method

| | | Th | H | T | O |
|-------|---|----|---|----|---|
| | | 4 | 6 | 3 | 5 |
| | + | | 1 | 8 | 3 |
| <hr/> | | | | | |
| | | 4 | 7 | 11 | 8 |

$$4,635 + 183 = 47,118$$

Jack's method

| | | Th | H | T | O |
|-------|---|----|---|---|---|
| | | 4 | 6 | 3 | 5 |
| | + | | 1 | 8 | 3 |
| <hr/> | | | | | |
| | | 4 | 7 | 1 | 8 |

$$4,635 + 183 = 4,718$$

Alex's method

| | | Th | H | T | O |
|-------|---|----|---|---|---|
| | | 4 | 6 | 3 | 5 |
| | + | | 1 | 8 | 3 |
| <hr/> | | | | | |
| | | 4 | 8 | 1 | 8 |
| | | | 1 | | |

$$4,635 + 183 = 4,818$$

Teddy's method

| | | Th | H | T | O |
|-------|---|----|---|---|---|
| | | 4 | 6 | 3 | 5 |
| | + | 1 | 8 | 3 | |
| <hr/> | | | | | |
| | | 6 | 4 | 6 | 5 |
| | | 1 | | | |

$$4,635 + 183 = 6,465$$

Whose method is correct? _____

Talk about the mistakes the other children have made.



5

Mr Robson has £2,100 to spend on a mobile phone and a laptop.

Which combinations of laptops and phones can he afford to buy?

6 Fill in the missing digits.

a)

| | | Th | H | T | O |
|-------|---|----|---|---|---|
| | | 3 | | 2 | |
| | + | | 4 | | 6 |
| <hr/> | | | | | |
| | | 8 | 7 | 9 | 1 |

b)

| | | Th | H | T | O |
|-------|---|----|---|---|---|
| | | | | | |
| | + | 3 | 8 | 2 | 1 |
| <hr/> | | | | | |
| | | 8 | 7 | 9 | 1 |

Add two 4-digit numbers – more than one exchange

1 Complete the calculation.

| Th | H | T | O |
|-------------|---------|-------|-----|
| 1,000 1,000 | 100 | 10 10 | 1 1 |
| 1,000 1,000 | 100 100 | 10 10 | 1 1 |
| 1,000 | 100 100 | 10 10 | 1 1 |
| | | 10 | 1 1 |

+

| | Th | H | T | O |
|---|----|---|---|---|
| | 2 | 1 | 7 | 6 |
| + | 3 | 4 | 5 | 8 |
| | | | | |
| | | | | |

2 Who has got each question correct? Tick your answer.

a) Nijah

| | H | T | O |
|---|----|---|---|
| | 4 | 4 | 5 |
| + | 3 | 4 | 8 |
| | 78 | 1 | 3 |

Scott

| | H | T | O |
|---|---|---|---|
| | 4 | 4 | 5 |
| + | 3 | 4 | 8 |
| | 7 | 9 | 3 |
| | | 1 | |

b) Nijah

| | Th | H | T | O |
|---|----|---|---|---|
| | 4 | 8 | 2 | 6 |
| + | 1 | 7 | 8 | |
| | 6 | 6 | 0 | 6 |
| | 1 | 1 | | |

Scott

| | Th | H | T | O |
|---|----|---|---|---|
| | 4 | 8 | 2 | 6 |
| + | | 1 | 7 | 8 |
| | 5 | 0 | 0 | 4 |
| | 1 | 1 | 1 | |

What mistake has the other person made in each calculation?

Talk about it with a partner.

3 Complete the additions.

a)

| | Th | H | T | O |
|---|----|---|---|---|
| | 4 | 7 | 1 | 2 |
| + | 3 | 4 | 9 | 2 |
| | | | | |
| | | | | |

c) 3,784 + 2,526

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

b)

| | Th | H | T | O |
|---|----|---|---|---|
| | 6 | 0 | 7 | 5 |
| + | | 9 | 4 | 8 |
| | | | | |
| | | | | |

d) 79 + 654 + 1,312

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

