1,000s, 100s, 10s and 1s

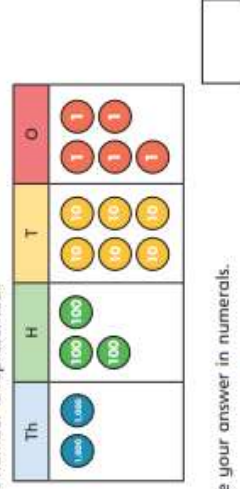**1)** How many nails are there?

There are ☐ nails.
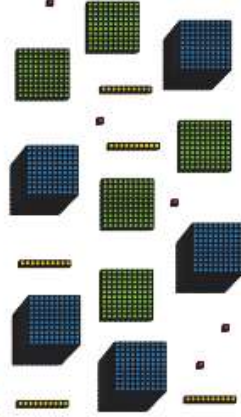
2) What numbers are represented?

a)

5) What number is represented?

Write your answer in numerals.

Write your answer in words.
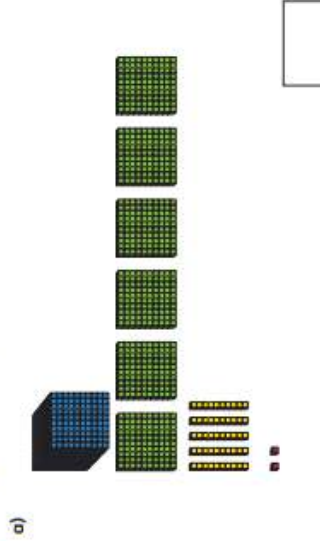
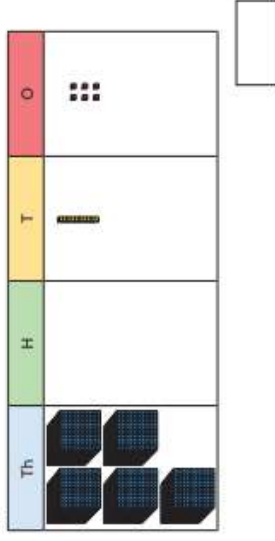**6)** Circle the base 10 or counters to show each number.

a) 2,053

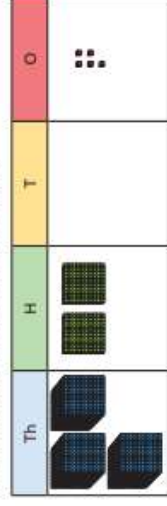b) 5,124

---

b)

3) Mo is trying to make the number 3,250.

He represents it on a place value chart.

Is Mo correct?

How do you know?

4) Use base 10 or place value counters to make these numbers.

a) 2,391   b) 1,050   c) 3,303

7) Write the value of the digit in bold.

a) **7**,120

b) 3,**9**15

c) 2,00**4**

d) **6**71

e) 5,9**1**8

8) Write a 4-digit number with 7 tens.

Write a 3-digit number with 7 tens.

Write a 2-digit number with 7 tens.

9) Here are some clues to a 4-digit number.

- There are 6 hundreds.
- There are more tens than ones.
- The sum of the digits is 12

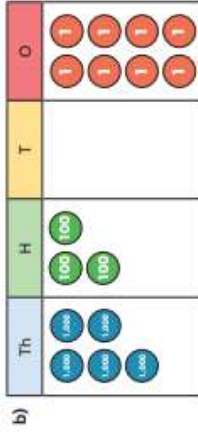What could the number be? How many possible numbers can you find?

2 Complete the number sentences.
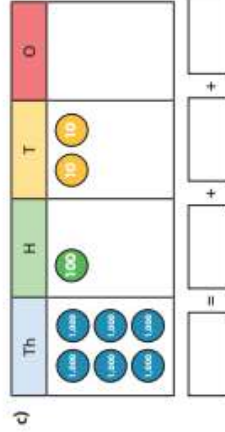
$3,472 = 3,000 + \boxed{} + \boxed{} + \boxed{}$

$3,472 = 2,000 + \boxed{} + \boxed{} + \boxed{}$

$3,472 = 1,000 + \boxed{} + \boxed{} + \boxed{}$

3 Complete the part-whole models.

a) 2,650

b) 7,039
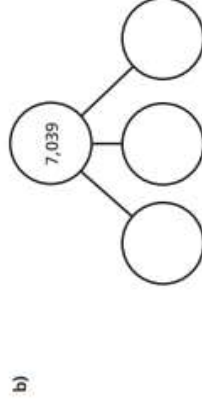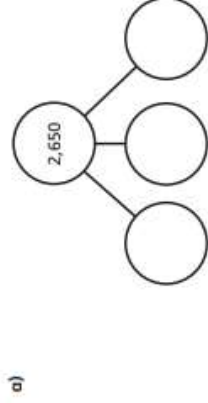
6 Explain why 20 hundreds is equal to 2,000

7 Alex has 4 digit cards.

| 1 | 2 | 7 | 9 |
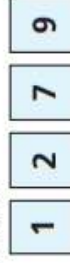
She makes a 4-digit number.

Her number has 7 thousands and 1 ten.

What numbers could Alex have made?

8 Jack has some number cards.

A	B	C	D
46 hundreds	4,000 + 600	3 thousands and 16 hundreds	460 ones
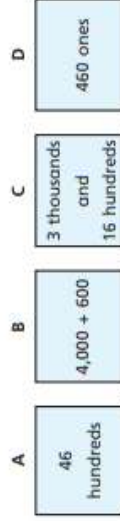
a) Which number card is not equal to the others?

b) Write another number card that is equal to Card B. Card ___

Partitioning

1 Complete the number sentences.

a) $2,156 = 2,000 + \boxed{} + \boxed{} + \boxed{}$

b)

Th	H	T	O
1,000 1,000 1,000 1,000 1,000	100 100 100 100		1 1 1 1 1 1 1 1

$5,308 = \boxed{} + \boxed{} + \boxed{} + \boxed{}$

c)

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

$= \boxed{} + \boxed{} + \boxed{} + \boxed{}$

4 Complete the sentences.

a) 2,348 is equal to 2 thousands, $\boxed{}$ hundreds, $\boxed{}$ tens and $\boxed{}$ ones.

b) 5,072 is equal to $\boxed{}$ thousands, $\boxed{}$ hundreds, $\boxed{}$ tens and $\boxed{}$ ones.

c) $\boxed{}$ is equal to 2 thousands, 7 hundreds and 6 tens.

d) $\boxed{}$ is equal to 8 thousands and 2 ones.

e) 54 ones is equal to $\boxed{}$ tens and $\boxed{}$ ones.

f) 28 tens is equal to $\boxed{}$ hundreds and $\boxed{}$ tens.

5 Complete the number sentences.

a) $2,909 = 2,000 + 900 + \boxed{}$

$2,909 = 2,900 + \boxed{}$

$2,909 = 1,000 + 900 + \boxed{}$

b) $7,156 = 7,000 + 100 + \boxed{}$

$7,156 = 56 + \boxed{}$

$7,156 = 6 + \boxed{}$

Number line to 1,000

Maths

1 Complete the number line.

200 — 500 — 800 — 1,000

2 What numbers are the arrows pointing to?

a)
0 — 500 — 1,000

b)
0 — 500 — 1,000

c)
0 — 500 — 1,000

3 Write these numbers on the number line.

400   150   600   990

0 — 1,000
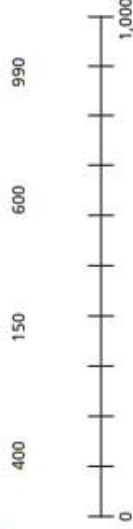
4 Here is a number line from 0 to 1,000

0 — 1,000

Label 500 and 750 on the number line.

5 Complete the number lines.

a)
200 — 230 — 280 — 300

b)
215 — 217 — 220

c)
0 — 200 — 1,000

6 a) Label 470 on the number line.

400 — 500

b) Label 280 on the number line.

200 — 400

7 This number line goes up in 100s.

0 — 1,000

Is Alex correct? How do you know?

_____
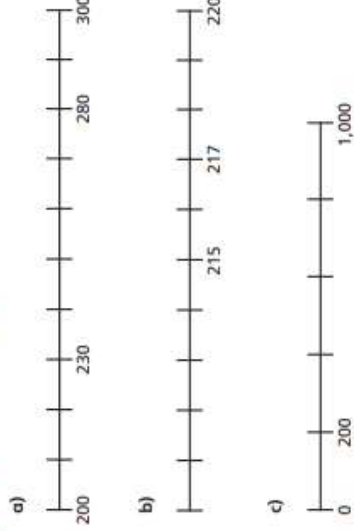
8 Draw an arrow to 785 on each number line.

a)
0 — 1,00

b)
700 — 80

c)
750 — 80
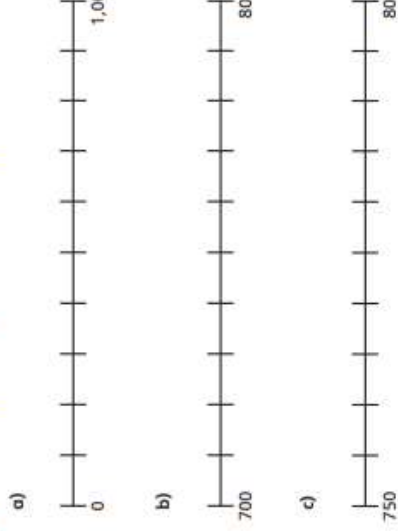
9 Estimate where these numbers go on the number line.

300   750   30   995

0 — 1,000
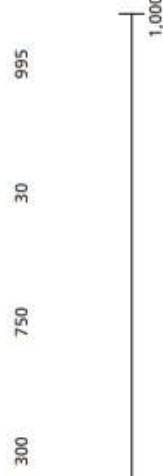
How did you do this? Talk about it with a partner.

The number line to 10,000

1 What numbers are the arrows pointing to?

0   1,000   2,000   5,000   7,000   10,000

2 What numbers are the arrows pointing to?

a) 0 ... 5,000 ... 10,000

b) 0 ... 5,000 ... 10,000

3 Label the number line with these numbers.

3,000   500   5,000   7,000   10,000

0 ——————————— 10,000

4 What is the value of A on each number line?

a) 1,000 — A — 2,000

Circle your answer.

5,000   6,000   1,600   1,500

b) 7,100 — A — 7,200

A = ☐

5 Complete the number line.

2,000   2,200   2,400   3,000
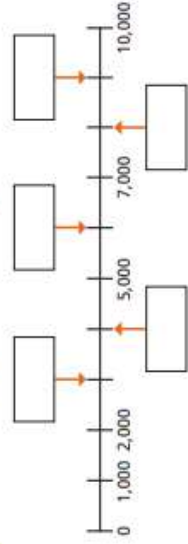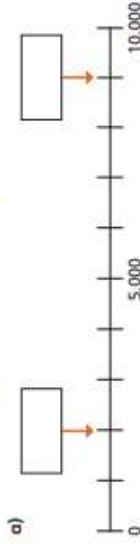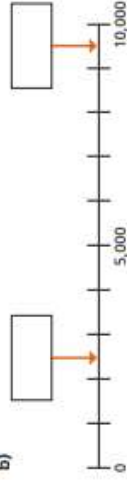
6 What numbers are the arrows pointing to?

0 ... 5,000
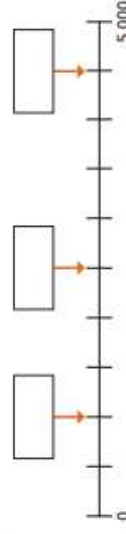
7 a) Estimate the values of A, B and C.

0 — A — B — C — 10,000

A = ☐   B = ☐   C = ☐

b) D is greater than A but less than B.

Write three possible values of D.

_____

8 This number line goes up in thousands.

Is Annie correct?

Explain your answer.

_____
_____
_____

0 ... 10,000

9 What could the missing numbers be?

a) ☐ — 2,400 — ☐

b) ☐ — 2,400 — ☐

Y4 Week 1 - Friday

Find 1, 10, 100 more or less

1 Annie makes a number using base 10
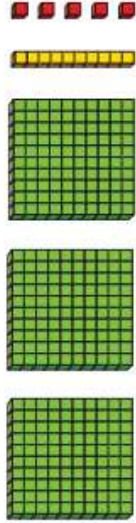
a) What number has Annie made?

Annie has made the number [ ]

b) What is 100 more than Annie's number?

100 more than Annie's number is [ ]

c) What is 10 more than Annie's number?

10 more than Annie's number is [ ]

d) What is 1 more than Annie's number?

1 more than Annie's number is [ ]

2 What number is represented?

Hundreds	Tens	Ones
•• ••	•••• ••••	••

The number represented is [ ]

a) What is 100 more than the number?

What is 10 more than the number?

What is 1 more than the number?

b) What is 100 less than the number?

What is 10 less than the number?

What is 1 less than the number?

3 What is 100 more than each of these numbers?

a) 700   b) 385   c) 590   d) 47

4 What is 10 more than each of these numbers?

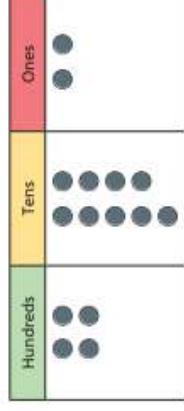a) 362   b) 180   c) 703   d) 695

5 What is 10 less than each of these numbers?

a) 789   b) 245   c) 300   d) 404

6 Complete the sentences.

a) 100 more than 763 is [ ]

b) [ ] is 100 more than 765

c) [ ] is 100 less than 503

d) 1 less than 300 is [ ]

e) 10 less than 109 is [ ]

f) [ ] is 10 less than 972

g) [ ] is 1 less than 699

7 Tom makes a number on a place value chart, but one of the counters slips off the chart.

Hundreds	Tens	Ones
•• ••		••
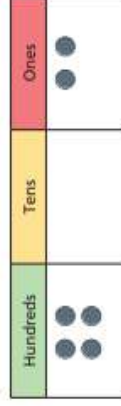
What could Tom's number have been?

8 Complete the table.

100 more	10 more	1 more	number	1 less	10 less	100 less
			473			
	398					
					890	

9 Kim thinks of a number.

100 less than Kim's number is 900

What is 10 less than Kim's number? [ ]

1,000 more or less

1 Write numerals to complete the table.

1,000 less	number	1,000 more

2 Find 1,000 more and 1,000 less than each number.

a) 1,000 more ← 7,000 → 1,000 less

b) 1,000 more ← 3,918 → 1,000 less

c) 1,000 more ← 1,203 → 1,000 less

3 Use the place value chart to help you complete the sentences.

Th	H	T	O
●● ●●	●	●●●● ●●●●	●●

a) 1,000 more than 4,192 is

b) 100 more than 4,192 is
   100 less than 4,192 is

c) 10 less than 4,192 is
   10 more than 4,192 is

d) 1 less than 4,192 is
   1 more than 4,192 is

4 a) What is 100 less than 2,000?

b) What is 10 less than 2,000?

c) What is 1 less than 2,000?

5 Complete the sentences.

a) 1,000 more than 7,163 is

b) is 100 more than 2,360

c) is 100 less than 1,900

d) 1 less than 1,500 is

e) 10 less than 109 is

f) is 1,000 more than 972

g) is 10 less than 5,990

6 Complete the number tracks.

| 1,760 | 1,770 | 1,780 | | | |

| 365 | 1,365 | | 3,365 | | |

7 Is this always, sometimes or never true?

When you find 100 more than a 4-digit number, only the 100s column changes.

8 Complete the number sentences.

a) 5,190 + 100 =

b) 395 + 1,000 =

c) 7,090 − 10 =

d) 7,090 + 10 =

e) 4,062 − 100 =

f) 6,195 + 10 =

g) 3,070 − 100 =

h) 792 + 10 =

i) 5,000 − 100 =

j) 1,093 + 10 =

9 a) Mo thinks of a number.
   1,000 less than Mo's number is 5,751
   What is 10 less than Mo's number?

b) 1 less than Ron's number is 100 more than Mo's number.
   What is Ron's number?

3 Which number is greater? Tick your answer

Th	H	T	O
●●	●●●		●

☐

Th	H	T	O
●●	●●●●		●●

☐
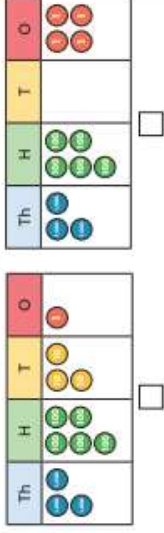
4 Circle all the numbers greater than 4,500

7,000   3,960   4,499   4,526   985

5 Write <, > or = to compare the numbers.

a)

Th	H	T	O
2	0	7	5

○

Th	H	T	O
1	4	9	0

b)

Th	H	T	O
6	2	3	5

○

Th	H	T	O
6	2	0	1

c)

Th	H	T	O
6	9	2	7

○

Th	H	T	O
7	0	0	5

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9 Teddy and Scott have some digit cards.

1   4   5   7

Teddy makes the number 4,571

Scott says his number is greater than Teddy's.

Teddy says Scott's number must start with a 5

Is Teddy correct? Explain how you know.

_____

10 What could the missing digits be?

a) 4,523 is greater than 4,5_7

b) 7,000 < __513

c) 3,854 > 3,85__

d) 5,650 > 4,__7__

11 Write all the possible missing digits.

a) 2,778 is less than 2,7_4

b) 6,000 > __259

Compare 4-digit numbers

1 Who has the smaller amount of drink?

Eva — 1,000 ml, 1,000 ml, 1,000 ml, 1,000 ml, 1,000 ml, 1,000 ml

Tommy — 1,000 ml, 1,000 ml, 1,000 ml, 1,000 ml, 1,000 ml, 100 ml, 100 ml, 100 ml

_____ has the smaller amount of drink.

Explain how you know.

_____

2 Which is the greater number? Tick your answer.

☐   ☐

6 Write the missing phrase.

(is less than / is greater than)

a) 4,720 _____ 4,635

b) 5,100 _____ 800

c) 3,195 _____ 3,591

d) 2,000 _____ 7,999

7 Which is the more expensive car?

A £4,789   B £4,795

Describe the steps you used to compare the car prices.

8 Write <, > or = to compare the numbers.

a) 6,000 ○ 3,981

b) 4,512 ○ 4,521

c) 900 ○ 1,200

d) 32 ○ 2,000

e) £6,418 ○ £6,419

Order numbers

1 Whitney, Tom and Dani are making numbers with base 10

Whitney	Tom	Dani

a) Who has made the greatest number? _____

Explain how you know.

b) Write the numbers in order. Start with the smallest number.

2 Write the numbers in order. Start with the greatest number.

2,600   2,540   2,595

5 Circle the smallest number in each list.

a) 625   1,400   3,280   4,000

b) 2,372   2,400   2,089

c) 6,180   6,175   6,190   6,241

6 The table shows the distances of five cities from London.

City	Distance from London
New York	5,570 km
Barcelona	1,138 km
Cairo	3,511 km
Oslo	1,150 km
Rome	1,435 km

a) Which of these cities is closest to London? _____

b) Which city is furthest from London? _____

c) Which city is 3rd closest to London? _____

7 Write each set of numbers in order. Start with the smallest number.

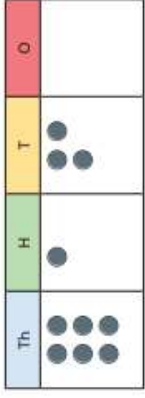a) 2,600   1,750   1,780   2,304

b) 728   8,200   1,322   8,079

3 Circle the greatest number.

1,700   3,803   7,500   5,270
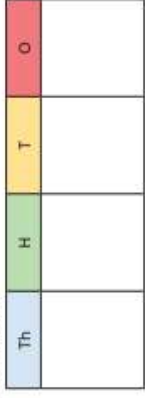
How do you know it is the greatest number?

4 Teddy uses 10 counters to make a number on a place value chart.

Th	H	T	O
•••• •••••	•	•••	

Rearrange the counters to make a number that is less than Teddy's.

Th	H	T	O

Rearrange the counters to make a number that is greater than Teddy's.

Th	H	T	O
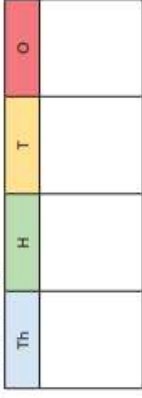
8 982 is greater than 2,340 because 982 starts with a 9 and the other number starts with a 2

What mistake has Jack made?

9 a) These numbers are in order from smallest to greatest.

3,_25   3,76_   3,_58

What could the missing digits be?

b) These numbers are in order.

The same digit is missing in each number.

7,_56 > 7,_3_ > 7,6_8

What could the missing digit be?

How many answers can you find?

Counting in 25s

1 The children have each got some packets of balloons.

Filip	Eva	Mo	Esther

a) How many balloons does each child have?

Filip ☐ Eva ☐ Mo ☐ Esther ☐

b) How many balloons are there in 6 packets? ☐

2 Complete the number tracks.

200	225	250				

750	725	700				

5 Is this true or false?

These scales will balance.

150g

25g 25g 25g
25g 25g 25g
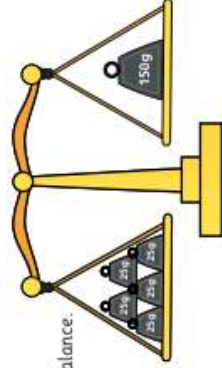
Explain your answer.

_____

6 Dora has 28 sheets of stickers.

Each sheet contains 25 stickers.

She has 700 stickers in total.

a) How many stickers are there on 29 sheets? ☐

b) How many stickers are there on 30 sheets? ☐

c) How did you work this out?

_____

3 Ron is counting up in 25s from 0 to 1,000.

0, 25, 50 ...

a) Circle all the numbers that Ron will say.

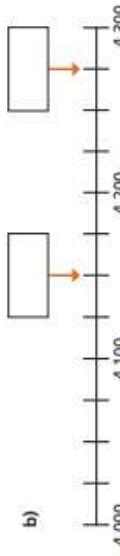| 51	100	175	305
90	258	720	725

b) Ron keeps counting past 1,000.

Ron will say all of these numbers.

1,025   1,775   1,900   2,025

Explain how we know this.

_____

4 What numbers are the arrows pointing to?

a)

☐ → 700 725 750 ... 900

☐ →

b)

☐ →

4,000 4,100 4,200 4,300

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7 Players in a game win coloured tokens.

A blue token wins 50 points.

An orange token wins 25 points.

a) Kim wins these tokens in round 1

50 50 50 50 50
25 25 25 25 25
25 25

50
25

How many points does she win? ☐

Explain how you know.

_____

b) By the end of the game, Kim has 600 points.

How many more points has she won?

What new tokens could she have won?

_____

Roman numerals

1 Match the numbers to the Roman numerals.

1		L
5		C
10		V
50		X
100		I

2 Write each number in Roman numerals.

a) 7

b) 12

c) 23

d) 55

e) 72

f) 89

g) 17

h) 41

i) 27

3 Eva lives in this house.

XXIV

What number does Eva live at?

Eva lives at number ☐

4 Jack rolls two 6-sided dice.
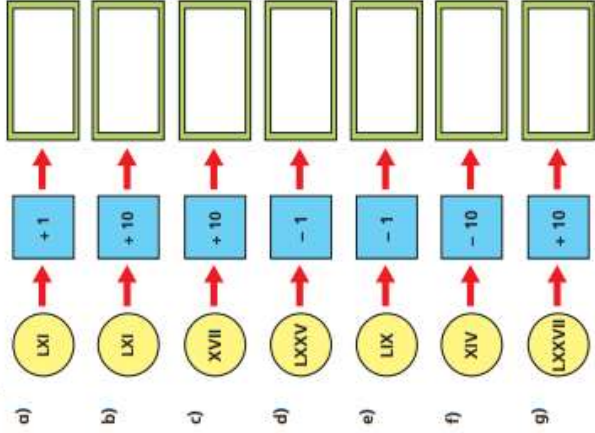
[= dice] [> dice]

What is Jack's total score? ☐

Alex rolls the same 2 dice and gets two different numbers.

Her score is the same as Jack's.

What numbers could Alex have rolled? ☐ and ☐

5 Write the Roman numeral in numerals and words.

a) XXIV ☐ _____

b) LXXI ☐ _____

c) LXVIII ☐ _____

d) XCVI ☐ _____

e) XXVIII ☐ _____

f) XCI ☐ _____

6 Each diagram should show a number in numerals, words and Roman numerals. Complete the diagrams.

a) twenty-six / 26

b) XIII

c) seventy

d) 48

7 Complete the function machines.

a) LXI → + 1 → ☐

b) LXI → + 10 → ☐

c) XVII → + 10 → ☐

d) LXXV → – 1 → ☐

e) LIX → – 1 → ☐

f) XIV → – 10 → ☐

g) LXXVII → + 10 → ☐

8 Complete the calculation.

XXIX + ☐ = LXI + ☐

How many other calculations can you write that give the same total?

Compare your answers with a partner.