Subtract a 3-digit number from a 3-digit number – exchange

White Rose Maths

1 Complete the column subtractions.

a) 254 – 126

Hundreds	Tens	Ones
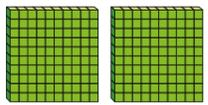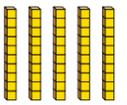
	H	T	O
	2	⁴5̸	¹4
–	1	2	6
	1	2	8

What exchange did you have to make?

1 ten for 10 ones.

b) 532 – 281

Hundreds	Tens	Ones
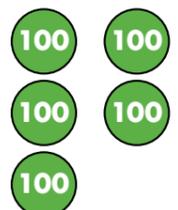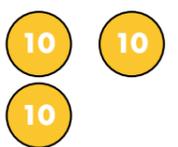
	H	T	O
	⁴5̸	¹3	2
–	2	8	1
	2	5	1

What exchange did you have to make?

1 hundred for 10 tens

2 Which of these calculations need an exchange? Tick your answers.

	H	T	O
	6	5	8
–	1	4	4

	H	T	O
	3	2	3 ✓
–	1	1	7
✓

	H	T	O
	4	2	9 ✓
–	1	7	2
✓

How do you know?

3 Work out the subtractions.

a) 735 – 218

	H	T	O
	7	²3̸	¹5
–	2	1	8
	5	1	7

c) 415 – 179

	H	T	O
	³4̸	⁰1̸	¹5
–	1	7	9
	2	3	6

b) 428 – 163

	H	T	O
	³4̸	¹2	8
–	1	6	3
	2	6	5

d) 382 – 194

	H	T	O
	³3̸	⁷8̸	¹2
–	1	9	4
	1	8	8

4 Talk about the mistake that has been made.

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  5 4 6
− 2 8 3
─────
  3 4 3
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5 Complete the subtractions.

a)

H	T	O
$^6\!\!7$	$^9\!\!0$	$^1\!0$
− 5	4	6
1	5	4

b)

H	T	O
$^7\!\!8$	$^9\!\!0$	5
− 1	7	9
6	2	6

6 Work out the missing digits in these subtractions.

a)

H	T	O
$^6\!\!7$	$^1\!1$	5
− 3	4	2
3	7	3

b)

H	T	O
$^3\!4$	$^1\!2$	0
− 1	2	8
2	9	2

7 Two points are marked on a number line.

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  ✗                              ✗
──┼──────────────────────────────┼────
0   167                        844  1,000
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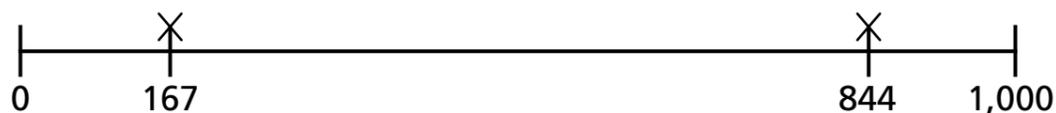
What is the difference between the two points?

677

8 Find the missing numbers.

a) 179 + [416] = 595   **c)** 95 + [637] + 138 = 870

b) 718 − [370] = 348   **d)** [949] − 446 = 503

9 Here are 3 buildings.

- A is 150 m tall
- B is 317 m taller than A
- C is 223 m shorter than B
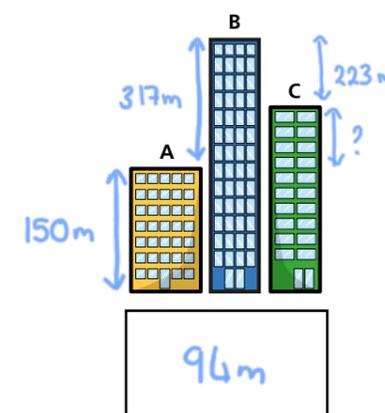
How much taller is C than A?

94 m

10 Aisha buys these items.

£189

£138

£485

How much change does she have from £1,000?

£188