Adding decimals with the same number of decimal places

1 Complete the additions.

Use the place value charts to help you.

a) 4.45 + 3.21 = $\boxed{7.66}$

Ones	Tenths	Hundredths
1 1 1 1 1 1 1	0.1 0.1 0.1 0.1 0.1 0.1	0.01 0.01 0.01 0.01 0.01 0.01

	4 • 4	5
+	3 • 2	1
	7 • 6	6

b) 4.45 + 3.61 = $\boxed{8.06}$

Ones	Tenths	Hundredths
O O O O	O O O O O O O O O O	O O O O O O
O O O		

	4 • 4	5
+	3 • 6	1
	8 • 0	6
1		

c) 4.45 + 3.78 = $\boxed{8.23}$

Ones	Tenths	Hundredths
O O O O	O O O O O O O O O O O	O O O O O O O O O O O O O
O O O		

	4 • 4	5
+	3 • 7	8
	8 • 2	3
1	1	

Which calculation was easier? Talk about it with a partner.

2 Use the column method to work out the additions.

a)

		5 • 3
	+	2 • 5
		7 • 8

b)

	6 • 0	3
+	3 • 9	1
	9 • 9	4

c)

		2 • 3	2
+	1	0 • 1	7
	1	2 • 4	9

d)

	6 • 3	7
+	6 • 2	6
1	2 • 6	3
	1		

e)

	3 • 1	0	2
+	5 • 8	7	6
	8 • 9	7	8

f)

1	2 • 0	3	4
+	9 • 2	2	7
2	1 • 2	6	1
	1		1

g)

	5 • 7	5
	5 • 3	2
+	5 • 0	1
1	6 • 0	8
	1		

h)

1	4 • 9	9
+	1	2 • 3	7
2	7 • 3	6
	1	1	

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3 Work out the calculations.
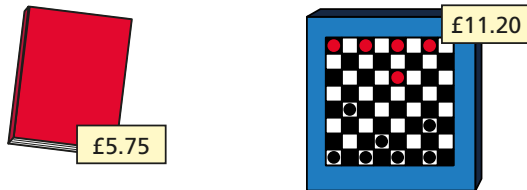
Write <, > or = to make the statements correct.

a)   0.64 + 4.79 (>) 5.01 + 0.23

b) 7.427 + 3.238 (<) 5.427 + 5.832

c)   3.08 + 4.63 (=) 4.84 + 2.87
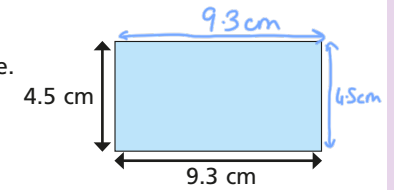
4 Teddy is working out the total cost of these items.

£11.20

£5.75

Here are his workings.

```
        5 · 7   5
   +  1 1 · 2   0
   ─────────────
     6 8 · 7   0
```

Talk to a partner about Teddy's mistake.

Work out the correct answer.

5 Work out the perimeter of the shape.

9.3 cm

4.5 cm

4.5 cm

9.3 cm

4·5 + 9·3 + 4·5 + 9·3

= 9 + 18·6

= 27·6

perimeter = 27·6 cm

6 Complete the number line.

+ 1.78   + 1.78   + 1.78

3.65   8·99
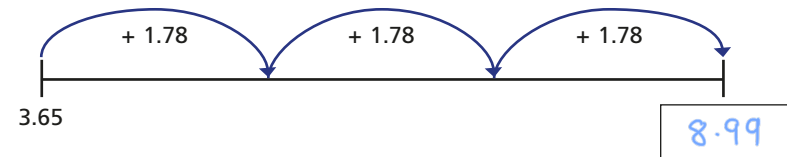
7 Eva starts with the number 1.62
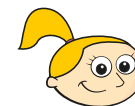
I added a number and got 2.8

Eva

This is impossible as 2.8 only has one digit after the decimal.

Rosie

Is Rosie correct? __No__

Talk about it with a partner.