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 = ☐

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

```
    4 · 4 5
+   3 · 2 1
    ─────────
      ·
```

b) 4.45 + 3.61 = ☐

Ones		Tenths	Hundredths

```
    4 · 4 5
+   3 · 6 1
    ─────────
      ·
```

c) 4.45 + 3.78 = ☐

Ones		Tenths	Hundredths

```
    4 · 4 5
+   3 · 7 8
    ─────────
      ·
```

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

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2 Use the column method to work out the additions.

a)
```
    5 · 3
+   2 · 5
  ───────
    ·
```

b)
```
    6 · 0 3
+   3 · 9 1
  ─────────
      ·
```

c)
```
    2 · 3 2
+ 1 0 · 1 7
  ─────────
      ·
```

d)
```
    6 · 3 7
+   6 · 2 6
  ─────────
      ·
```

e)
```
    3 · 1 0 2
+   5 · 8 7 6
  ───────────
      ·
```

f)
```
  1 2 · 0 3 4
+    9 · 2 2 7
  ───────────
      ·
```

g)
```
    5 · 7 5
    5 · 3 2
+   5 · 0 1
  ─────────
      ·
```

h)
```
    1 4 · 9 9
+   1 2 · 3 7
  ───────────
      ·
```
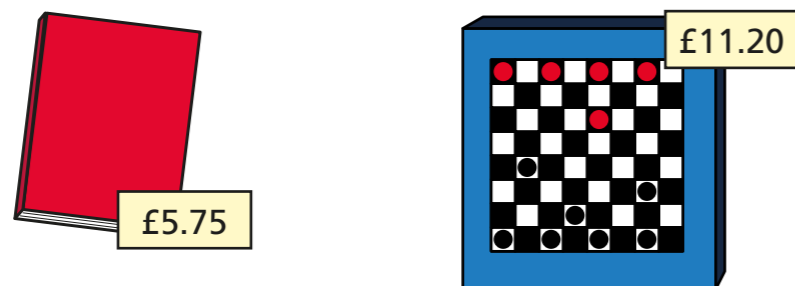
3 Work out the calculations.

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.
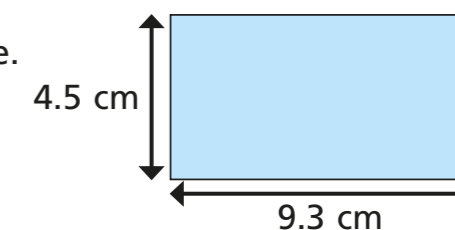
£11.20

£5.75

Here are his workings.

$$
\begin{array}{r}
5 \cdot 7 \quad 5 \\
+ \quad 1 \quad 1 \cdot 2 \quad 0 \\
\hline
6 \quad 8 \cdot 7 \quad 0 \\
\hline
\end{array}
$$

Talk to a partner about Teddy's mistake.

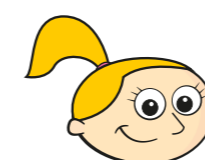Work out the correct answer.

5 Work out the perimeter of the shape.

4.5 cm

9.3 cm

perimeter = ☐ cm

6 Complete the number line.
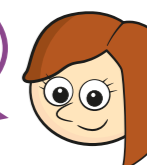
+ 1.78   + 1.78   + 1.78

3.65
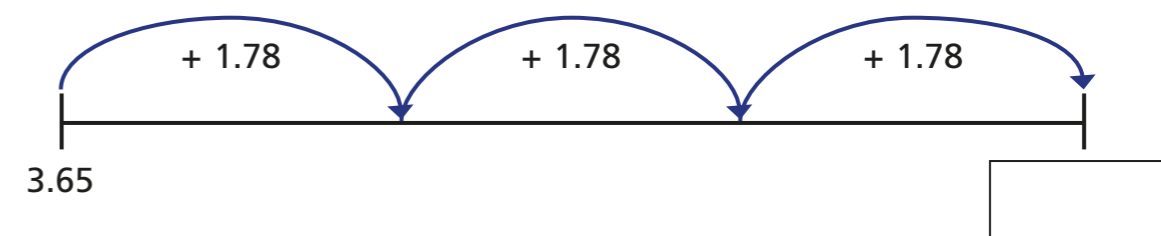
7 Eva starts with the number 1.62

I added a number and got 2.8

Eva

Rosie

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

Is Rosie correct? _____

Talk about it with a partner.