

# Adding decimals with the same number of decimal places

1 Complete the additions.

Use the place value charts to help you.

a)  $4.45 + 3.21 = 7.66$

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
<hr/>		
7	6	6

b)  $4.45 + 3.61 = 8.06$

Ones	Tenths	Hundredths
0 0	0 0 0	0 0 0
0 0	0 0 0	0 0
0 0	0 0 0	0

4	4	5
+	3	6 1
<hr/>		
8	0	6

c)  $4.45 + 3.78 = 8.23$

Ones	Tenths	Hundredths
0 0	0 0 0	0 0 0
0 0	0 0 0	0 0
0 0	0 0 0	0 0 0

4	4	5
+	3	7 8
<hr/>		
8	2	3

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

2 Use the column method to work out the additions.

a) 
$$\begin{array}{r} 5.3 \\ + 2.5 \\ \hline 7.8 \end{array}$$

e) 
$$\begin{array}{r} 3.102 \\ + 5.876 \\ \hline 8.978 \end{array}$$

b) 
$$\begin{array}{r} 6.03 \\ + 3.91 \\ \hline 9.94 \end{array}$$

f) 
$$\begin{array}{r} 12.034 \\ + 9.227 \\ \hline 21.261 \end{array}$$

c) 
$$\begin{array}{r} 2.32 \\ + 10.17 \\ \hline 12.49 \end{array}$$

g) 
$$\begin{array}{r} 5.75 \\ 5.32 \\ + 5.01 \\ \hline 16.08 \end{array}$$

d) 
$$\begin{array}{r} 6.37 \\ + 6.26 \\ \hline 12.63 \end{array}$$

h) 
$$\begin{array}{r} 14.99 \\ + 12.37 \\ \hline 27.36 \end{array}$$



3 Work out the calculations.

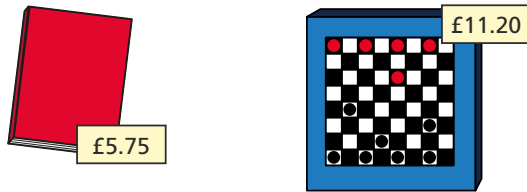
Write  $<$ ,  $>$  or  $=$  to make the statements correct.

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.



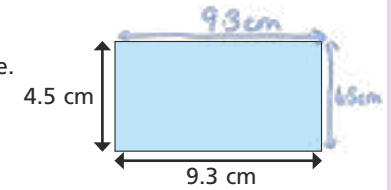
Here are his workings.

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

Talk to a partner about Teddy's mistake.

Work out the correct answer.

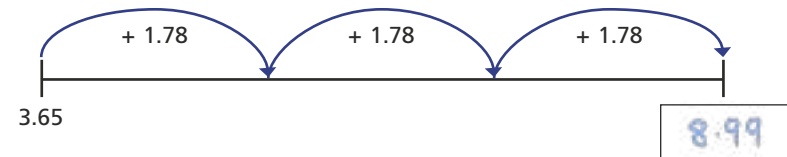
5 Work out the perimeter of the shape.



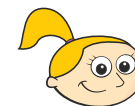
$$\begin{aligned} &4.5 + 9.3 + 4.5 + 9.3 \\ &= 9 + 18.6 \\ &= 27.6 \end{aligned}$$

perimeter =  $27.6$  cm

6 Complete the number line.



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? No

Talk about it with a partner.