Adding decimals with the same number of decimal places

1. Complete the additions. Use the place value charts to help you.

a) \(4.45 + 3.21 = \) 

\[
\begin{array}{c|c|c}
\text{Ones} & \text{Tenths} & \text{Hundredths} \\
4 & 4 & 5 \\
+ & 3 & 2 \\
\hline
& & 7 \\
\end{array}
\]

b) \(4.45 + 3.61 = \) 

\[
\begin{array}{c|c|c}
\text{Ones} & \text{Tenths} & \text{Hundredths} \\
4 & 4 & 5 \\
+ & 3 & 6 \\
\hline
& & 1 \\
\end{array}
\]

c) \(4.45 + 3.78 = \) 

\[
\begin{array}{c|c|c}
\text{Ones} & \text{Tenths} & \text{Hundredths} \\
4 & 4 & 5 \\
+ & 3 & 7 \\
\hline
& & 2 \\
\end{array}
\]

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

2. Use the column method to work out the additions.

a) 

\[
\begin{array}{c}
\underline{5.3} \\
+ \underline{2.5} \\
\hline
\underline{7.8} \\
\end{array}
\]

e) 

\[
\begin{array}{c}
\underline{3.102} \\
+ \underline{5.876} \\
\hline
\underline{9.978} \\
\end{array}
\]

b) 

\[
\begin{array}{c}
\underline{6.03} \\
+ \underline{3.91} \\
\hline
\underline{9.94} \\
\end{array}
\]

f) 

\[
\begin{array}{c}
\underline{1.2034} \\
+ \underline{9.227} \\
\hline
\underline{10.4301} \\
\end{array}
\]

c) 

\[
\begin{array}{c}
\underline{2.32} \\
+ \underline{1.017} \\
\hline
\underline{3.337} \\
\end{array}
\]

g) 

\[
\begin{array}{c}
\underline{5.75} \\
+ \underline{5.01} \\
\hline
\underline{10.76} \\
\end{array}
\]

d) 

\[
\begin{array}{c}
\underline{6.37} \\
+ \underline{6.26} \\
\hline
\underline{12.63} \\
\end{array}
\]

h) 

\[
\begin{array}{c}
\underline{1.499} \\
+ \underline{1.237} \\
\hline
\underline{2.736} \\
\end{array}
\]

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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.

Here are his workings.

\[
\begin{array}{c}
5 \\
7 \\
\hline
\end{array}
\begin{array}{c}
5 \\
\hline
\end{array}
\begin{array}{c}
5 \\
\hline
\end{array}
\begin{array}{c}
+ \\
1 \\
\hline
\end{array}
\begin{array}{c}
1 \\
\hline
\end{array}
\begin{array}{c}
2 \\
\hline
\end{array}
\begin{array}{c}
0 \\
\hline
\end{array}
\begin{array}{c}
6 \\
8 \\
7 \\
0
\end{array}
\]

Talk to a partner about Teddy’s mistake.
Work out the correct answer.

5. Work out the perimeter of the shape.

\[
\text{perimeter} = \quad \text{cm}
\]

6. Complete the number line.

\[
\begin{array}{c}
+ 1.78 \\
+ 1.78 \\
+ 1.78
\end{array}
\]

7. Eva starts with the number 1.62

Eva: I added a number and got 2.8
Rosie: This is impossible as 2.8 only has one digit after the decimal.

Is Rosie correct? ____________
Talk about it with a partner.