

Adding and Subtracting Decimals

Friday, 16 March 2018 11:16 AM

★ The work to be completed at the end of teaching is shown at the bottom of the OneNote.

Adding Decimals

* When adding any numbers it's always important to make sure we keep the rules of place value in our heads. We always line the Units up, the tens, the hundreds, the thousands etc ...

If we look at adding two "normal" numbers together we get:

① Add: $6 + 12$

units

$$\begin{array}{r} 12 \\ + 06 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 12 \\ + 60 \\ \hline \end{array}$$

Tens

↓
↓
H T U

H T U • Tens hundreds

$$27 + 3$$

Add: 273 and 47

$$\begin{array}{r} 273 \\ + 47 \\ \hline 320 \end{array}$$

The same is true for decimal numbers! Make sure you line up the decimal points and the numbers and you can't go wrong :)

① Add: $13.25 + 14.72 = 13.25 + 14.72 \leftarrow$

$$\begin{array}{r} 13.25 \\ + 14.72 \\ \hline 27.97 \end{array}$$

$$\begin{array}{r} 13.25 \\ + 14.72 \\ \hline 13.25 \\ + 14.72 \\ \hline 27.97 \end{array}$$

Subtract: $77.81 - 6.3 \leftarrow$

$$\begin{array}{r} 77.81 \\ - 6.30 \\ \hline 71.51 \end{array}$$

$17.2 - 5.1$

$$\begin{array}{r} 17.2 \\ - 5.1 \\ \hline 12.1 \end{array}$$

Finding Missing Numbers

We can use the same ideas when we are presented problems with missing numbers. So long as we know how to add numbers together we can find the missing numbers :)

$$\begin{array}{r}
 \begin{array}{r}
 \downarrow \quad \downarrow \\
 3 \cdot \boxed{7} \\
 \end{array}
 \\[10pt]
 \begin{array}{r}
 \textcircled{+} \quad 4 \cdot 6 \quad \leftarrow \\
 \hline
 \end{array}
 \\[10pt]
 \begin{array}{r}
 \boxed{8} \cdot 3 \quad \leftarrow \\
 \hline
 \textcircled{1}
 \end{array}
 \end{array}$$

$$8 \cdot \boxed{6} \quad 9$$

$$\begin{array}{r}
 \textcircled{+} \quad \boxed{5} \cdot 75 \\
 \hline
 \boxed{1} \quad 4 \cdot 4 \quad \boxed{4} \\
 \hline
 \textcircled{1} \quad \textcircled{1} \quad 1
 \end{array}$$

Questions for you to do at the end of teaching:

YEAR 7 TEXTBOOK

EXERCISE 6C

QUESTIONS 1, 2, 3a, c, 4a, e, 5cd, 6cd, 7c

and 9, 12

1 Extension questions