

Worksheet 12

Adding and Subtracting Decimals

- 1 Using the numbers 0, 1, 2, 3, 4, 7, 8 and 9 once each, fill in the blanks to form two numbers with:

- (a) the smallest possible sum

$$\begin{array}{r} \boxed{0} . \boxed{3} \boxed{7} \boxed{9} \\ + \boxed{1} . \boxed{2} \boxed{4} \boxed{8} \\ \hline \boxed{1} . \boxed{6} \boxed{2} \boxed{7} \\ \hline \end{array}$$

- (b) the smallest possible difference


$$\begin{array}{r} \boxed{4} . \boxed{0} \boxed{1} \boxed{2} \\ - \boxed{3} . \boxed{9} \boxed{8} \boxed{7} \\ \hline \boxed{0} . \boxed{0} \boxed{2} \boxed{5} \\ \hline \end{array}$$

2



adds like this.

$$\begin{array}{r}
 1.567 \\
 + 0.964 \\
 \hline
 0.011 \\
 0.12 \\
 1.4 \\
 + 1 \\
 \hline
 \underline{2.531}
 \end{array}$$

Use 's method.

(a) $1.869 + 1.296 =$

3.165

(b) $4.418 + 5.252 =$

9.670

$$\begin{array}{r}
 1.869 \\
 + 1.296 \\
 \hline
 0.015 \\
 0.15 \\
 1.0 \\
 2.0 \\
 \hline
 \underline{3.165}
 \end{array}$$

$$\begin{array}{r}
 4.418 \\
 + 5.252 \\
 \hline
 0.010 \\
 0.06 \\
 0.6 \\
 9.0 \\
 \hline
 \underline{9.670}
 \end{array}$$

3

Subtract. Show how you rename.

(a) $2.041 - 1.356 =$ **0.685**

$$\begin{array}{r}
 \overset{1}{\cancel{2}} \ . \ \overset{9}{\cancel{0}} \ \overset{13}{\cancel{4}} \ \overset{11}{\cancel{1}} \\
 - 1 \ . \ 3 \ 5 \ 6 \\
 \hline
 0 \ . \ 6 \ 8 \ 5
 \end{array}$$

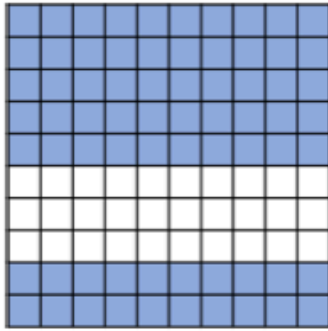
(b) $4.123 - 2.854 =$ **1.269**

$$\begin{array}{r}
 \overset{3}{\cancel{4}} \ . \ \overset{10}{\cancel{1}} \ \overset{11}{\cancel{2}} \ \overset{13}{\cancel{3}} \\
 - 2 \ . \ 8 \ 5 \ 4 \\
 \hline
 1 \ . \ 2 \ 6 \ 9
 \end{array}$$

(c) $3.101 - 1.888 =$ **1.213**

$$\begin{array}{r}
 \overset{2}{\cancel{3}} \ . \ \overset{10}{\cancel{1}} \ \overset{9}{\cancel{0}} \ \overset{11}{\cancel{1}} \\
 - 1 \ . \ 8 \ 8 \ 8 \\
 \hline
 1 \ . \ 2 \ 1 \ 3
 \end{array}$$

Alex and Eva have been asked to write the decimal shaded on the 100 grid.



Alex says the grid shows 0.70

Eva says the grid shows 0.7

Who do you agree with?

Explain your answer.

Complete the statements.

3 tenths and 2 hundredths = 2 tenths
and hundredths

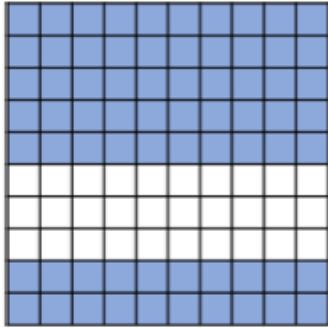
14 hundredths and 3 tenths = 4 tenths
and hundredths

5 tenths and 1 hundredth < 5 tenths and
 hundredths

5 tenths and 1 hundredth > tenths
and 5 hundredths

Can you list all the possibilities?

Alex and Eva have been asked to write the decimal shaded on the 100 grid.



Alex says the grid shows 0.70

Eva says the grid shows 0.7

Who do you agree with?

Explain your answer.

They are both correct.

The grid shows 70 hundredths or 7 tenths and this is what Alex and Eva have given as their answers.

In Alex's answer the 0 in the hundredths column isn't needed as it is not a place holder and doesn't change the value of the number.

Complete the statements.

3 tenths and 2 hundredths = 2 tenths and hundredths

12

14 hundredths and 3 tenths = 4 tenths and hundredths

4

5 tenths and 1 hundredth < 5 tenths and hundredths

Anything more than 1

5 tenths and 1 hundredth > tenths and 5 hundredths

0, 1, 2, 3 or 4

Can you list all the possibilities?