

Luna's Space Adventure

Name _____

Grade 4 • Adding decimals to thousandths • 4.CE.4

Date _____



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Tenths, hundredths, thousandths Add each place to its own place.

$0.4 + 0.001 = \boxed{}$

$0.18 + 0.006 = \boxed{}$

$0.5 + 0.002 = \boxed{}$

$0.22 + 0.006 = \boxed{}$

$0.31 + 0.009 = \boxed{}$

$0.2 + 0.005 = \boxed{}$

$0.46 + 0.001 = \boxed{}$

$0.15 + 0.006 = \boxed{}$

$0.35 + 0.009 = \boxed{}$

Line up the points Zeros fill the empty places, so the points line up. Add like whole numbers.

$$\begin{array}{r} \\ 1 \quad \boxed{} \boxed{} \quad \boxed{} \boxed{} \\ 12.806 \\ + 15.911 \\ \hline \end{array}$$

$$\begin{array}{r} \\ 2 \quad \boxed{} \boxed{} \quad \boxed{} \boxed{} \\ 18.400 \\ + 6.198 \\ \hline \end{array}$$

$$\begin{array}{r} \\ 3 \quad \boxed{} \quad \boxed{} \boxed{} \\ 6.328 \\ + 1.750 \\ \hline \end{array}$$

$$\begin{array}{r} \\ 4 \quad \boxed{} \boxed{} \quad \boxed{} \boxed{} \\ 8.300 \\ + 17.492 \\ \hline \end{array}$$

Subtract Subtract like whole numbers, regrouping across the point. Bring the point down.

$$\begin{array}{r} \\ 1 \quad \\ 10.991 \\ - 3.406 \\ \hline \end{array}$$

$$\begin{array}{r} \\ 2 \quad \\ 13.876 \\ - 10.730 \\ \hline \end{array}$$

$$\begin{array}{r} \\ 3 \quad \\ 11.377 \\ - 7.500 \\ \hline \end{array}$$

$$\begin{array}{r} \\ 4 \quad \\ 6.994 \\ - 2.700 \\ \hline \end{array}$$

Story time

- ① Gia swam a lap in 12.62 seconds, then in 11.016 seconds. How much faster was the second lap?

.....

_____ seconds



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ANSWER KEY



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Tenths, hundredths, thousandths Add each place to its own place.

$$0.4 + 0.001 = 0.401$$

$$0.18 + 0.006 = 0.186$$

$$0.5 + 0.002 = 0.502$$

$$0.22 + 0.006 = 0.226$$

$$0.31 + 0.009 = 0.319$$

$$0.2 + 0.005 = 0.205$$

$$0.46 + 0.001 = 0.461$$

$$0.15 + 0.006 = 0.156$$

$$0.35 + 0.009 = 0.359$$

Line up the points Zeros fill the empty places, so the points line up. Add like whole numbers.

$$\begin{array}{r} 12.806 \\ + 15.911 \\ \hline \end{array}$$

28.717

$$\begin{array}{r} 18.400 \\ + 6.198 \\ \hline \end{array}$$

24.598

$$\begin{array}{r} 6.328 \\ + 1.750 \\ \hline \end{array}$$

8.078

$$\begin{array}{r} 8.300 \\ + 17.492 \\ \hline \end{array}$$

25.792

Subtract Subtract like whole numbers, regrouping across the point. Bring the point down.

$$\begin{array}{r} 10.991 \\ - 3.406 \\ \hline \end{array}$$

7.585

$$\begin{array}{r} 13.876 \\ - 10.730 \\ \hline \end{array}$$

3.146

$$\begin{array}{r} 11.377 \\ - 7.500 \\ \hline \end{array}$$

3.877

$$\begin{array}{r} 6.994 \\ - 2.700 \\ \hline \end{array}$$

4.294

Story time

- 1 Gia swam a lap in 12.62 seconds, then in 11.016 seconds. How much faster was the second lap?

$$12.62 - 11.016 = 1.604$$

1.604 seconds



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GUIDE

1 What this sheet practises

Adding and subtracting decimals to thousandths, lining up the decimal points and writing zeros in empty places.

2 A problem from the sheet, worked out

Line up the points Zeros fill the empty places, so the points line up. Add like whole numbers.

1	$\begin{array}{r} \square\square \overset{1}{\cdot} \square\square \\ 12.806 \\ + 15.911 \\ \hline 28.717 \end{array}$	2	$\begin{array}{r} \square\square \overset{1}{\cdot} \square\square \\ 18.400 \\ + 6.198 \\ \hline 24.598 \end{array}$	3	$\begin{array}{r} \square\square \overset{1}{\cdot} \square\square \\ 6.328 \\ + 1.750 \\ \hline 8.078 \end{array}$	4	$\begin{array}{r} \square\square \overset{1}{\cdot} \square\square \\ 8.300 \\ + 17.492 \\ \hline 25.792 \end{array}$
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How: Line up the points, write zeros so every number has three places (4.2 becomes 4.200), then add or subtract as with whole numbers and bring the point straight down.

3 Words to know

tenths the first place after the point

hundredths the second place after the point

thousandths the third place after the point

decimal point the dot between wholes and parts

4 Watch for

- Lining up the last digits instead of the points.
- Subtracting $5.2 - 1.375$ as $1.375 - 5.2$ in the empty places.
- Forgetting the point in the answer.

5 Where it fits

BEFORE

4.NF.C.6

Write tenths and hundredths as decimals.

THIS SHEET

4.CE.4

Add and subtract decimals to thousandths, and solve story problems with them.

NEXT

5.NBT.B.7

Add, subtract, multiply and divide decimals to hundredths.

6 Helping at home

Compare race times or prices with three decimal places, like 12.345 seconds. Ask how much faster one is than the other.

