

Luna's Space Adventure

Name _____

Grade 4 · Tenths and hundredths · 4.NF.C.5

Date _____



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

Tenths as hundredths Each tenth is ten hundredths.

$$\frac{6}{10} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{5}{10} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{7}{10} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{4}{10} = \frac{\boxed{}}{\boxed{}}$$

Add them Rename the tenths first.

$$\frac{6}{10} + \frac{27}{100} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{7}{10} + \frac{2}{100} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{7}{10} + \frac{5}{100} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{8}{10} + \frac{10}{100} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{4}{10} + \frac{56}{100} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{1}{10} + \frac{78}{100} = \frac{\boxed{}}{\boxed{}}$$

Split it up Break each number of hundredths into tenths and hundredths.

$$\frac{78}{100} = \frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}}$$

$$\frac{96}{100} = \frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}}$$

Same or different? Circle the answer.

6/10 and 57/100 are...

the same

different

4/10 and 40/100 are...

the same

different

4/10 and 45/100 are...

the same

different

8/10 and 80/100 are...

the same

different

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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 as hundredths Each tenth is ten hundredths.

$$\frac{6}{10} = \frac{60}{100}$$

$$\frac{5}{10} = \frac{50}{100}$$

$$\frac{7}{10} = \frac{70}{100}$$

$$\frac{4}{10} = \frac{40}{100}$$

Add them Rename the tenths first.

$$\frac{6}{10} + \frac{27}{100} = \frac{87}{100}$$

$$\frac{7}{10} + \frac{2}{100} = \frac{72}{100}$$

$$\frac{7}{10} + \frac{5}{100} = \frac{75}{100}$$

$$\frac{8}{10} + \frac{10}{100} = \frac{90}{100}$$

$$\frac{4}{10} + \frac{56}{100} = \frac{96}{100}$$

$$\frac{1}{10} + \frac{78}{100} = \frac{88}{100}$$

Split it up Break each number of hundredths into tenths and hundredths.

$$\frac{78}{100} = \frac{7}{10} + \frac{8}{100}$$

$$\frac{96}{100} = \frac{9}{10} + \frac{6}{100}$$

Same or different? Circle the answer.

6/10 and 57/100 are...

the same **different**

4/10 and 40/100 are...

the same different

4/10 and 45/100 are...

the same **different**

8/10 and 80/100 are...

the same different

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GUIDE

① What this sheet practises

Fractions with 10 or 100 on the bottom: renaming tenths as hundredths, and adding the two, as a step toward decimals.

② A problem from the sheet, worked out

Add them Rename the tenths first.

$$\frac{6}{10} + \frac{27}{100} = \frac{87}{100}$$

$$\frac{7}{10} + \frac{2}{100} = \frac{72}{100}$$

$$\frac{7}{10} + \frac{5}{100} = \frac{75}{100}$$

$$\frac{8}{10} + \frac{10}{100} = \frac{90}{100}$$

$$\frac{4}{10} + \frac{56}{100} = \frac{96}{100}$$

$$\frac{1}{10} + \frac{78}{100} = \frac{88}{100}$$

How: Tenths and hundredths are different-size pieces, so rename the tenths first: $8/10 = 80/100$. Then add the hundredths: $80/100 + 10/100 = 90/100$.

③ Words to know

tenth one of 10 equal parts

hundredth one of 100 equal parts

rename write the same amount a different way

denominator the bottom number: parts in the whole

④ Watch for

- Adding straight across: $8/10 + 10/100 = 18/110$.
- Renaming $3/10$ as $3/100$ instead of $30/100$.
- Thinking $27/100$ is more than $3/10$ because 27 is more than 3.

⑤ Where it fits

BEFORE

3.NF.A.3

Find equivalent fractions and compare fractions by thinking about their size.

THIS SHEET

4.NF.C.5

Add fractions with denominators of 10 and 100.

NEXT

4.NF.C.6

Write tenths and hundredths as decimals.

⑥ Helping at home

Use dimes and pennies: a dime is $10/100$ of a dollar and a penny is $1/100$. Three dimes and 4 pennies make $34/100$.