

Tenths to Hundredths

Rename, then add fractions with tenths and hundredths.

GRADE 4 • 4.NF.C.5

CCSS.Math.Content.4.NF.C.5 "Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100. 2 For example, express $3/10$ as $30/100$..."

NAME _____

DATE _____

MAKE LIKE DENOMINATORS

To change a fraction with denominator 10 into a fraction with denominator 100, multiply the numerator by 10. Then both fractions have the same denominator, so you can add the numerators.

WORKED EXAMPLE

Find $7/10 + 13/100$.

1. Change $7/10$ to a fraction with denominator 100.
2. $7/10 = 70/100$.
3. Add: $70/100 + 13/100 = 83/100$.

Answer: $83/100$

PRACTICE 6 problems

- 1** Write $4/10$ as a fraction with denominator 100.

ANSWER _____

- 2** Find $26/100 + 5/10$.

ANSWER _____

- 3** Find $9/10 + 6/100$.

ANSWER _____

- 4** Write $3/10$ as a fraction with denominator 100.

ANSWER _____

- 5** Find $41/100 + 2/10$.

ANSWER _____

- 6** Find $8/10 + 11/100$.

ANSWER _____

APPLY IT Show your work

- 1** At a school fun run, Maya completed $\frac{6}{10}$ of the course before a water break. Then she completed $\frac{18}{100}$ more of the course. What fraction of the course did Maya complete altogether?

WORK SPACE

ANSWER _____

- 2** Jordan's art club painted $\frac{52}{100}$ of a mural on Monday and $\frac{1}{10}$ of the mural on Tuesday. What fraction of the mural did the club paint in all?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A game score meter is $\frac{84}{100}$ full. It was $\frac{24}{100}$ full at first, and then it increased by $\frac{x}{10}$. What is x ? Show why your answer works.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $\frac{4}{10}$ as a fraction with denominator 100.	$\frac{40}{100}$
2	Find $\frac{26}{100} + \frac{5}{10}$.	$\frac{76}{100}$
3	Find $\frac{9}{10} + \frac{6}{100}$.	$\frac{96}{100}$
4	Write $\frac{3}{10}$ as a fraction with denominator 100.	$\frac{30}{100}$
5	Find $\frac{41}{100} + \frac{2}{10}$.	$\frac{61}{100}$
6	Find $\frac{8}{10} + \frac{11}{100}$.	$\frac{91}{100}$

PART 2 • APPLY IT

1. **$\frac{78}{100}$** Change $\frac{6}{10}$ to $\frac{60}{100}$. Then add $\frac{60}{100} + \frac{18}{100} = \frac{78}{100}$.
2. **$\frac{62}{100}$** Change $\frac{1}{10}$ to $\frac{10}{100}$. Then add $\frac{52}{100} + \frac{10}{100} = \frac{62}{100}$.

CHALLENGE

$x = 6$, because $\frac{84}{100} - \frac{24}{100} = \frac{60}{100} = \frac{6}{10}$.

Expect fractions written with denominator 100 for the practice and application items. For the challenge, accept $x = 6$ with a correct explanation that $\frac{6}{10}$ is the same as $\frac{60}{100}$.