

Tenths Meet Hundredths

Rename tenths as hundredths, then add.

GRADE 4 • MA.4.FR.2.3

MA.4.FR.2.3 "Explore the addition of a fraction with denominator of 10 to a fraction with denominator of 100 using equivalent fractions."

NAME _____

DATE _____

MAKE LIKE DENOMINATORS

To add a fraction with denominator 10 to a fraction with denominator 100, rename the tenths fraction as hundredths. Multiply its numerator and denominator by 10, then add the numerators. Keep the denominator 100.

WORKED EXAMPLE

Add $4/10 + 37/100$.

1. Rename $4/10$ as $40/100$.
2. Write $40/100 + 37/100$.
3. Add: $40 + 37 = 77$.

Answer: $77/100$

PRACTICE 6 problems

1 Add $2/10 + 15/100$.

ANSWER _____

2 Add $6/10 + 8/100$.

ANSWER _____

3 Add $1/10 + 49/100$.

ANSWER _____

4 Add $7/10 + 23/100$.

ANSWER _____

5 Add $3/10 + 61/100$.

ANSWER _____

6 Add $8/10 + 12/100$.

ANSWER _____

APPLY IT Show your work

- 1** On Monday, Ava read $\frac{5}{10}$ of her graphic novel. On Tuesday, she read another $\frac{16}{100}$ of the same novel. What fraction of the novel did she read altogether?

WORK SPACE

ANSWER _____

- 2** During a racing game, Leo completed $\frac{9}{10}$ of a track challenge. He then completed another $\frac{7}{100}$ of the challenge. What fraction of the challenge did he complete altogether?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Nia says that $\frac{2}{10} + \frac{78}{100}$ equals $\frac{80}{100}$. Is Nia correct? Explain your reasoning.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Add $2/10 + 15/100$.	35/100
2	Add $6/10 + 8/100$.	68/100
3	Add $1/10 + 49/100$.	59/100
4	Add $7/10 + 23/100$.	93/100
5	Add $3/10 + 61/100$.	91/100
6	Add $8/10 + 12/100$.	92/100

PART 2 • APPLY IT

1. **66/100** Rename $5/10$ as $50/100$. Then add $50/100 + 16/100 = 66/100$.
2. **97/100** Rename $9/10$ as $90/100$. Then add $90/100 + 7/100 = 97/100$.

CHALLENGE

No. $2/10 = 20/100$, so $20/100 + 78/100 = 98/100$.

Expect students to rename the tenths fraction with a denominator of 100 before adding. Accept equivalent fraction forms, but the intended answers are written in hundredths.