

Tenths to Hundredths

Build equivalent fractions by multiplying by 10.

GRADE 4 • MA.4.FR.1.1

MA.4.FR.1.1 "Model and express a fraction, including mixed numbers and fractions greater than one, with the denominator 10 as an equivalent fraction with the denominator 100."

NAME _____

DATE _____

MAKE ONE HUNDREDTHS

To change a fraction with a denominator of 10 into a fraction with a denominator of 100, multiply the denominator by 10. Multiply the numerator by 10, too. If there is a whole number, keep it the same.

WORKED EXAMPLE

Write $4\frac{7}{10}$ as an equivalent fraction with a denominator of 100.

1. $10 \times 10 = 100$.
2. $7 \times 10 = 70$.
3. Keep the whole number 4.

Answer: $4\frac{70}{100}$

PRACTICE 6 problems

- 1** Write $\frac{3}{10}$ as an equivalent fraction with a denominator of 100.

ANSWER _____

- 2** Write $1\frac{2}{10}$ as an equivalent fraction with a denominator of 100.

ANSWER _____

- 3** Write $\frac{14}{10}$ as an equivalent fraction with a denominator of 100.

ANSWER _____

- 4** Write $\frac{6}{10}$ as an equivalent fraction with a denominator of 100.

ANSWER _____

- 5** Write $3\frac{5}{10}$ as an equivalent fraction with a denominator of 100.

ANSWER _____

- 6** Write $\frac{19}{10}$ as an equivalent fraction with a denominator of 100.

ANSWER _____

APPLY IT Show your work

- 1** At an arcade, Jalen's prize meter is $\frac{8}{10}$ full. Write the amount as an equivalent fraction with a denominator of 100.

WORK SPACE

ANSWER _____

- 2** During a walkathon, Priya walks $2\frac{9}{10}$ miles. Write her distance as an equivalent mixed number with a denominator of 100.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Which number is greater, $1\frac{8}{10}$ or $1\frac{75}{100}$? Rewrite the number with tenths as hundredths, then compare.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $\frac{3}{10}$ as an equivalent fraction with a denominator of 100.	$\frac{30}{100}$
2	Write $1\frac{2}{10}$ as an equivalent fraction with a denominator of 100.	$1\frac{20}{100}$
3	Write $\frac{14}{10}$ as an equivalent fraction with a denominator of 100.	$\frac{140}{100}$
4	Write $\frac{6}{10}$ as an equivalent fraction with a denominator of 100.	$\frac{60}{100}$
5	Write $3\frac{5}{10}$ as an equivalent fraction with a denominator of 100.	$3\frac{50}{100}$
6	Write $\frac{19}{10}$ as an equivalent fraction with a denominator of 100.	$\frac{190}{100}$

PART 2 • APPLY IT

1. **$\frac{80}{100}$** Multiply both the numerator and denominator of $\frac{8}{10}$ by 10. The equivalent fraction is $\frac{80}{100}$.
2. **$2\frac{90}{100}$** Keep the whole number 2. Multiply the numerator and denominator of $\frac{9}{10}$ by 10 to get $\frac{90}{100}$.

CHALLENGE

$1\frac{8}{10} = 1\frac{80}{100}$, so $1\frac{8}{10}$ is greater.

Accept equivalent answers only when the denominator is 100, including improper fractions such as $\frac{140}{100}$. For mixed numbers, the whole number stays the same and only the fractional part changes.