LESSON MAKER PRO

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 7/10 as an equivalent fraction with a denominator of 100.

1. 10 x 10 = 100.
2. 7 x 10 = 70.
3. Keep the whole number 4.

Answer: 4 70/100

PRACTICE 6 problems

1 Write 3/10 as an equivalent fraction with a denominator of 100.

ANSWER _____

2 Write 1 2/10 as an equivalent fraction with a denominator of 100.

ANSWER _____

3 Write 14/10 as an equivalent fraction with a denominator of 100.

ANSWER _____

4 Write 6/10 as an equivalent fraction with a denominator of 100.

ANSWER _____

5 Write 3 5/10 as an equivalent fraction with a denominator of 100.

ANSWER _____

6 Write 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 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 9/10 miles. Write her distance as an equivalent mixed number with a denominator of 100.

WORK SPACE

ANSWER _____

3 Build the model. Your teacher provides two equal-size 10-by-10 square grids; each grid is one whole. Outline each column as one tenth. Shade one whole grid and two columns of the second grid. Name the shaded amount in tenths. Count the shaded small squares and name the same amount in hundredths. Explain why the two names represent the same amount.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Which number is greater, 1 8/10 or 1 75/100? Rewrite the number with tenths as hundredths, then compare.

WORK SPACE AND ANSWER

ANSWER KEY

Tenths to Hundredths

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PART 1 · PRACTICE

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

PART 2 · APPLY IT

1. **80/100** Multiply both the numerator and denominator of 8/10 by 10. The equivalent fraction is 80/100.
2. **2 90/100** Keep the whole number 2. Multiply the numerator and denominator of 9/10 by 10 to get 90/100.
3. **1 2/10 = 12/10 = 1 20/100 = 120/100.** Observe the actual shading: one whole grid plus two full columns, or 120 small squares. Each tenth-column contains 10 hundredths, so 12 tenths equals 120 hundredths. Keep the two grids equal in size and each small square equal in area.

CHALLENGE

1 8/10 = 1 80/100, so 1 8/10 is greater.

For the requested conversions, accept equivalent answers with denominator 100, including improper fractions such as 140/100. For mixed numbers, retain the whole number. In Apply 3, accept both the tenths name and the equivalent hundredths name when they match the learner's shaded model.