LESSON MAKER PRO

# Same Number, New Look

*Write fractions and decimals in equivalent forms.*

**GRADE 7 · 7.N.1.2**

**7.N.1.2** "Recognize and generate equivalent representations of rational numbers, including equivalent fractions."

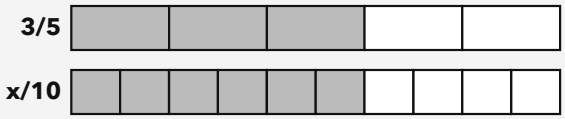
NAME _____ DATE _____

## THE BIG IDEA

Multiply or divide a fraction's numerator and denominator by the same nonzero number to keep its value. A fraction and a decimal can also name the same value.

## WORKED EXAMPLE

Use the bars to complete 3/5 = x/10.




1. The two bars have the same amount shaded.
2. Multiply the denominator by 2: 5 × 2 = 10.
3. Multiply the numerator by 2: 3 × 2 = 6.

**Answer: x = 6**

## PRACTICE 4 problems

**1** Complete 4/7 = x/21.

**ANSWER** _____

**2** Write -8/12 in simplest form.

**ANSWER** _____

**3** Write 0.75 as a fraction in simplest form.

**ANSWER** _____

**4** Write -7/8 as a decimal.

**ANSWER** _____

## APPLY IT Show your work

**1** A playlist has 20 songs. You saved 7. Write the share you saved as a fraction in simplest form and as a decimal.

WORK SPACE

**ANSWER** _____

**2** A game character loses 0.125 of a full energy bar. Write the signed change as a fraction in simplest form.

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

A player claims -4/9 = 4/-9 = -8/-18. Is the whole claim correct? Explain.

WORK SPACE AND ANSWER

**ANSWER KEY** # Same Number, New Look

**GRADE 7 · 7.N.1.2**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | Complete 4/7 = x/21. | **x = 12** |
| 2 | Write -8/12 in simplest form. | **-2/3** |
| 3 | Write 0.75 as a fraction in simplest form. | **3/4** |
| 4 | Write -7/8 as a decimal. | **-0.875** |

## PART 2 · APPLY IT

1. **7/20 and 0.35** The saved share is 7/20, which is already in simplest form. Multiply by 5/5 to get 35/100 = 0.35.
2. **-1/8** A loss is negative. Since 0.125 = 125/1000 = 1/8, the signed change is -1/8.

## CHALLENGE

**No. The first two fractions equal -4/9, but -8/-18 equals positive 4/9.**

Accept equivalent forms for intermediate work. In the challenge, the explanation must identify that a negative divided by a negative is positive.