LESSON MAKER PRO

Fraction Form Switch

Connect fractions, decimals, and percents.

GRADE 6 · 6.NS.1.d

6.NS.1.d "Represent and determine equivalencies among decimals, percents, fractions (proper or improper), and mixed numbers that have denominators that are 12 or less or factors of 100 incorporating the use of number lines..."

NAME _____ DATE _____

ONE AMOUNT, THREE FORMS

A fraction, decimal, and percent can name the same amount. To change a fraction to a decimal, divide the numerator by the denominator. To change a decimal to a percent, move the decimal point two places right and add the percent sign.

WORKED EXAMPLE

Use the model. Write the shaded amount as a fraction, decimal, and percent.



1. The bar has 8 equal parts, and 7 are shaded, so the fraction is 7/8.
2. Divide: 7 ÷ 8 = 0.875.
3. Move the decimal two places right: 87.5%.

Answer: 7/8 = 0.875 = 87.5%

PRACTICE 6 problems

1 Use the model. Write the shaded amount as a fraction, decimal, and percent.



ANSWER _____

2 Write 9/10 as a decimal and a percent.

ANSWER _____

3 Write 1.25 as a fraction in simplest form and as a percent.

ANSWER _____

4 Point A is shown on the number line. Write its value as a fraction in simplest form and as a percent.



ANSWER _____

5 Write 2 1/2 as a decimal and a percent.

ANSWER _____

6 Write 11/4 as a decimal and as a mixed number.

ANSWER _____

APPLY IT Show your work

1 Maya's phone storage meter shows that 0.45 of the space is filled with photos and videos. Write the filled space as a fraction in simplest form and as a percent.

WORK SPACE

ANSWER _____

2 During a robotics club endurance test, Jalen's robot traveled 1.2 kilometers. Write this distance as a fraction in simplest form, a mixed number, and a percent of one kilometer.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Without a calculator, order 5/12, 0.56, 3/5, and 62.5% from least to greatest. Explain by writing each value as a decimal.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Form Switch

GRADE 6 · 6.NS.1.d

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the model. Write the shaded amount as a fraction, decimal, and percent.	**3/5 = 0.6 = 60%**
2	Write 9/10 as a decimal and a percent.	**0.9; 90%**
3	Write 1.25 as a fraction in simplest form and as a percent.	**5/4; 125%**
4	Point A is shown on the number line. Write its value as a fraction in simplest form and as a percent.	**3/4; 75%**
5	Write 2 1/2 as a decimal and a percent.	**2.5; 250%**
6	Write 11/4 as a decimal and as a mixed number.	**2.75; 2 3/4**

PART 2 · APPLY IT

1. **9/20; 45%** Write 0.45 as 45/100, then simplify by dividing both numbers by 5. The decimal 0.45 is 45%.
2. **6/5; 1 1/5; 120%** Write 1.2 as 12/10 and simplify to 6/5. The improper fraction is 1 1/5, and 1.2 equals 120%.

CHALLENGE

5/12 < 0.56 < 3/5 < 62.5%, because 5/12 = 0.4166..., 0.56 = 0.56, 3/5 = 0.6, and 62.5% = 0.625.

Accept equivalent decimal forms with trailing zeros. For the challenge, accept 0.416... or another accurate repeating-decimal notation for 5/12.