LESSON MAKER PRO

Rational Number Remix

Match fractions, decimals, and percentages.

GRADE 6 · MA.6.NSO.3.5

MA.6.NSO.3.5 "Rewrite positive rational numbers in different but equivalent forms including fractions, terminating decimals and percentages."

NAME _____ DATE _____

EQUIVALENT FORMS

A fraction can be written as a decimal by making an equivalent fraction with a denominator of 10, 100, or 1,000, or by dividing. To write a decimal as a percent, multiply by 100 and add %, and to write a percent as a decimal, divide by 100.

WORKED EXAMPLE

Rewrite 11/20 as a decimal and a percent.

1. Multiply 11/20 by 5/5 to make a denominator of 100.
2. 11/20 = 55/100.
3. 55/100 = 0.55.
4. 0.55 x 100 = 55, so 0.55 = 55%.

Answer: 11/20 = 0.55 = 55%

PRACTICE 6 problems

1 Rewrite 7/20 as a decimal and a percent.

ANSWER _____

2 Rewrite 0.125 as a fraction in simplest form and a percent.

ANSWER _____

3 Rewrite 45% as a fraction in simplest form and a decimal.

ANSWER _____

4 Rewrite 13/25 as a decimal and a percent.

ANSWER _____

5 Rewrite 0.72 as a fraction in simplest form and a percent.

ANSWER _____

6 Rewrite 3/4 as a decimal and a percent.

ANSWER _____

APPLY IT Show your work

1 A video game download is 0.875 complete. Write the completed part as a fraction in simplest form and as a percent.

WORK SPACE

ANSWER _____

2 In a music club poll, 65% of students chose pop music. Write this amount as a decimal and as a fraction in simplest form.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A student says that 0.375 is equivalent to 37.5%. Write 0.375 as a fraction in simplest form. Then decide whether the student is correct and explain why.

WORK SPACE AND ANSWER

ANSWER KEY

Rational Number Remix

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Rewrite 7/20 as a decimal and a percent.	**7/20 = 0.35 = 35%**
2	Rewrite 0.125 as a fraction in simplest form and a percent.	**0.125 = 1/8 = 12.5%**
3	Rewrite 45% as a fraction in simplest form and a decimal.	**45% = 9/20 = 0.45**
4	Rewrite 13/25 as a decimal and a percent.	**13/25 = 0.52 = 52%**
5	Rewrite 0.72 as a fraction in simplest form and a percent.	**0.72 = 18/25 = 72%**
6	Rewrite 3/4 as a decimal and a percent.	**3/4 = 0.75 = 75%**

PART 2 · APPLY IT

1. **7/8 and 87.5%** Write 0.875 as 875/1,000, then simplify to 7/8. Multiply 0.875 by 100 to get 87.5%.
2. **0.65 and 13/20** Divide the percentage number 65 by 100 to get 0.65. Write 65/100 and simplify by dividing numerator and denominator by 5.

CHALLENGE

0.375 = 3/8. The student is correct because 0.375 x 100 = 37.5, so 0.375 = 37.5%.

Accept equivalent fractions only if they are mathematically equal, but require simplest form when the prompt asks for it. Accept decimals with a trailing zero, such as 0.350, when they are equivalent.