LESSON MAKER PRO

Same Amount, Different Form

Find matching fractions, decimals, and percents.

GRADE 6 · 6.N.1.4

6.N.1.4 "Determine equivalencies among fractions, mixed numbers, decimals, and percents."

NAME _____ DATE _____

THE BIG IDEA

A fraction, decimal, and percent can name the same amount. To change a fraction to a decimal, divide the numerator by the denominator. Multiply the decimal by 100 to write it as a percent. For a mixed number, keep the whole number when you convert the fraction part.

WORKED EXAMPLE

Write 7/25 as a decimal and a percent.

1. Multiply the numerator and denominator by 4: 7/25 = 28/100.
2. Write 28/100 as a decimal: 0.28.
3. Multiply by 100 to write the percent: 0.28 × 100 = 28%.

Answer: 7/25 = 0.28 = 28%

PRACTICE 6 problems

1 Write 1/4 as a decimal and a percent.

ANSWER _____

2 Write 0.6 as a fraction in lowest terms.

ANSWER _____

3 Write 45% as a fraction in lowest terms.

ANSWER _____

4 Write 2 1/8 as a decimal and a percent.

ANSWER _____

5 Write 0.04 as a fraction in lowest terms and a percent.

ANSWER _____

6 Are 150% and 1 1/2 equivalent? Write yes or no and show one conversion.

ANSWER _____

APPLY IT Show your work

1 A game download is 0.75 complete. Your friend says it is 3/4 complete. Are you reporting the same amount? Explain using a percent.

WORK SPACE

ANSWER _____

2 A craft club uses 1 1/5 rolls of tape on Monday and 135% of a roll on Tuesday. Which day does it use more tape, and by what fraction of a roll?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Three players report these amounts of a game level: 1 3/8, 1.38, and 138%. Which two amounts are equivalent? Write 1 3/8 as a decimal and a percent to explain.

WORK SPACE AND ANSWER

ANSWER KEY

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write 1/4 as a decimal and a percent.	**0.25 and 25%**
2	Write 0.6 as a fraction in lowest terms.	**3/5**
3	Write 45% as a fraction in lowest terms.	**9/20**
4	Write 2 1/8 as a decimal and a percent.	**2.125 and 212.5%**
5	Write 0.04 as a fraction in lowest terms and a percent.	**1/25 and 4%**
6	Are 150% and 1 1/2 equivalent? Write yes or no and show one conversion.	**Yes. 150% = 1.5 = 1 1/2.**

PART 2 · APPLY IT

1. **Yes. Both 0.75 and 3/4 equal 75%.** Divide 3 by 4 to get 0.75, then multiply by 100 to get 75%.
2. **Tuesday, by 3/20 of a roll.** Convert 1 1/5 to 1.2 and 135% to 1.35. The difference is 0.15, or 3/20 of a roll.

CHALLENGE

1.38 and 138% are equivalent. Since 3/8 = 0.375, 1 3/8 = 1.375 = 137.5%, so it is not equivalent to the other two amounts.

Accept equivalent fractions in explanations, but require lowest terms where requested. In the challenge, students must distinguish exact equivalence from rounding.