

Same Whole Switches

Match fractions, decimals, and percents that name the same part.

GRADE 6 • TEKS 6.5.C

6.5.C "use equivalent fractions, decimals, and percents to show equal parts of the same whole."

NAME _____

DATE _____

ONE PART, THREE FORMS

A fraction, decimal, and percent can name the same amount of one whole. To change a decimal to a percent, multiply by 100 and write the percent sign. To change a fraction to a decimal, divide the numerator by the denominator.

WORKED EXAMPLE

Write $\frac{3}{8}$ as a decimal and a percent.

1. Divide: $3 \div 8 = 0.375$.
2. Change to a percent: $0.375 \times 100 = 37.5\%$.
3. Write the equivalent forms: $\frac{3}{8} = 0.375 = 37.5\%$.

Answer: $\frac{3}{8} = 0.375 = 37.5\%$

PRACTICE 6 problems

- 1** Write $\frac{1}{2}$ as a decimal and a percent.

ANSWER _____

- 2** Write 0.25 as a fraction in simplest form and as a percent.

ANSWER _____

- 3** Write 75% as a fraction in simplest form and as a decimal.

ANSWER _____

- 4** Which fraction is equal to 0.8? A. $\frac{4}{5}$ B. $\frac{8}{100}$ C. $\frac{8}{5}$

ANSWER _____

- 5** Write $\frac{2}{10}$ as a decimal and a percent.

ANSWER _____

- 6** Complete the equation: $\frac{7}{20} =$ ____ decimal = ____%.

ANSWER _____

APPLY IT Show your work

- 1** During a school esports tournament, 18 of 40 team members chose the racing game. What fraction of the team chose the racing game, in simplest form? Write the same part as a decimal and a percent.

WORK SPACE

ANSWER _____

- 2** A student uses 20 of 32 gigabytes of storage on a tablet for art and music files. What fraction of the tablet's storage is used, in simplest form? Write the same part as a decimal and a percent.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Five cards show these amounts: 0.6, $\frac{6}{10}$, 60%, $\frac{3}{5}$, and $\frac{5}{6}$. Which four cards show equal parts of the same whole? Explain how you know.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $\frac{1}{2}$ as a decimal and a percent.	0.5 and 50%
2	Write 0.25 as a fraction in simplest form and as a percent.	$\frac{1}{4}$ and 25%
3	Write 75% as a fraction in simplest form and as a decimal.	$\frac{3}{4}$ and 0.75
4	Which fraction is equal to 0.8? A. $\frac{4}{5}$ B. $\frac{8}{100}$ C. $\frac{8}{5}$	A. $\frac{4}{5}$
5	Write $\frac{2}{10}$ as a decimal and a percent.	0.2 and 20%
6	Complete the equation: $\frac{7}{20} = \underline{\hspace{1cm}}$ decimal = $\underline{\hspace{1cm}}\%$.	0.35 and 35%

PART 2 • APPLY IT

- 1. $\frac{9}{20}$, 0.45, and 45%** Simplify $\frac{18}{40}$ by dividing the numerator and denominator by 2 to get $\frac{9}{20}$. Divide 18 by 40 to get 0.45, then change 0.45 to 45%.
- 2. $\frac{5}{8}$, 0.625, and 62.5%** Simplify $\frac{20}{32}$ by dividing the numerator and denominator by 4 to get $\frac{5}{8}$. Divide 20 by 32 to get 0.625, then change 0.625 to 62.5%.

CHALLENGE

0.6, $\frac{6}{10}$, 60%, and $\frac{3}{5}$ are equal. $0.6 = 60\%$, and $\frac{6}{10}$ simplifies to $\frac{3}{5}$.

Accept equivalent fraction forms when a problem does not require simplest form. Require fractions in simplest form for the problems that state that requirement.