

Number Form Switch

Match fractions, decimals, and percents.

GRADE 6 • TEKS 6.4.G

6.4.G "generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money; and"

NAME _____

DATE _____

SAME AMOUNT, NEW FORM

A fraction, decimal, and percent can name the same part of a whole. Change a fraction to a decimal by writing an equivalent fraction with a denominator of 10, 100, or 1,000 when possible. To change a decimal to a percent, multiply by 100 and add the percent sign.

WORKED EXAMPLE

Write $\frac{11}{25}$ as a decimal and a percent.

1. Rewrite with a denominator of 100:
 $\frac{11}{25} = \frac{44}{100}$.
2. Write $\frac{44}{100}$ as a decimal: 0.44.
3. Multiply 0.44 by 100 to get 44%.

Answer: $\frac{11}{25} = 0.44 = 44\%$

PRACTICE 6 problems

- 1** Write $\frac{3}{4}$ as a decimal and a percent.

ANSWER _____

- 2** Write 0.125 as a fraction in simplest form and a percent.

ANSWER _____

- 3** Write 45% as a decimal and a fraction in simplest form.

ANSWER _____

- 4** Write 0.6 as a fraction in simplest form and a percent.

ANSWER _____

- 5** A sticker costs \$0.18. What fraction of \$1 is \$0.18? Write the fraction in simplest form and also write the percent.

ANSWER _____

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

ANSWER _____

APPLY IT Show your work

- 1** At a school esports event, Maya spends \$18 of her \$24 snack budget. What fraction of her budget did she spend? Write the amount as a fraction in simplest form, a decimal, and a percent.

WORK SPACE

ANSWER _____

- A game pass costs \$18. Jalen uses \$6 of his gift money to pay for it, and his parents pay the rest.
- 2** What fraction of the cost did Jalen pay? Write the amount as a fraction in simplest form, a decimal, and a percent.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A concert hoodie normally costs \$56. It is on sale for 37.5% off. Write 37.5% as a fraction in simplest form and as a decimal. Then find the dollar amount of the discount and the sale price.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $\frac{3}{4}$ as a decimal and a percent.	$\frac{3}{4} = 0.75 = 75\%$
2	Write 0.125 as a fraction in simplest form and a percent.	$0.125 = \frac{1}{8} = 12.5\%$
3	Write 45% as a decimal and a fraction in simplest form.	$45\% = 0.45 = \frac{9}{20}$
4	Write 0.6 as a fraction in simplest form and a percent.	$0.6 = \frac{3}{5} = 60\%$
5	A sticker costs \$0.18. What fraction of \$1 is \$0.18? Write the fraction in simplest form and also write the percent.	$\$0.18 = \frac{9}{50}$ of \$1 = 18%
6	Write $\frac{2}{5}$ as a decimal and a percent.	$\frac{2}{5} = 0.4 = 40\%$

PART 2 • APPLY IT

1. **$\frac{3}{4}$, 0.75, 75%** Write the part over the whole: $\frac{18}{24}$. Simplify to $\frac{3}{4}$, which is 0.75 or 75%.
2. **$\frac{1}{3}$, 0.333..., 33 $\frac{1}{3}\%$** Write the part Jalen paid over the total cost: $\frac{6}{18}$. Simplify to $\frac{1}{3}$, which is 0.333... or 33 $\frac{1}{3}\%$.

CHALLENGE

$37.5\% = \frac{3}{8} = 0.375$; discount: \$21; sale price: \$35

Accept equivalent decimal notation, including .75 for 0.75. Fractions should be in simplest form, and repeating decimals may use an ellipsis or a bar notation.