

Same Amount Sprint

Match 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, multiply by 100.

WORKED EXAMPLE

Write $\frac{7}{10}$ as a decimal and a percent.

1. Divide: $7 \div 10 = 0.7$.

2. Multiply the decimal by 100: $0.7 \times 100 = 70$.

3. Write the percent sign.

Answer: $\frac{7}{10} = 0.7 = 70\%$

PRACTICE 6 problems

1 Write $\frac{3}{5}$ as a decimal and a percent.

ANSWER _____

2 Write 0.45 as a fraction in simplest form.

ANSWER _____

3 Complete: $1 \frac{1}{4} = \frac{\quad}{100} = \quad\%$

ANSWER _____

4 A number line is marked at 0, 0.25, 0.50, 0.75, and 1. Point R is at 0.75. Write R as a fraction in simplest form and as a percent.

ANSWER _____

5 A 10-by-10 grid has 32 shaded squares. Write the shaded part as a decimal, a fraction in simplest form, and a percent.

ANSWER _____

6 Order these amounts from least to greatest: $\frac{5}{6}$, 0.8, 85%.

ANSWER _____

APPLY IT Show your work

- 1** At a skateboarding practice, Maya lands 9 out of 12 trick attempts. What fraction of her attempts does she land, in simplest form? Write the same amount as a decimal and a percent.

WORK SPACE

ANSWER _____

- 2** Jalen listens to 1.25 hours of a 2-hour playlist. What fraction of the playlist does he listen to, in simplest form? Write the amount as a decimal and a percent.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Point T is halfway between 1.2 and 1.3 on a number line. Write T as a decimal, a percent, an improper fraction, and a mixed number.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $\frac{3}{5}$ as a decimal and a percent.	$\frac{3}{5} = 0.6 = 60\%$
2	Write 0.45 as a fraction in simplest form.	$0.45 = \frac{9}{20}$
3	Complete: $1 \frac{1}{4} = \frac{\quad}{100} = \quad\%$	$1 \frac{1}{4} = \frac{125}{100} = 125\%$
4	A number line is marked at 0, 0.25, 0.50, 0.75, and 1. Point R is at 0.75. Write R as a fraction in simplest form and as a percent.	$R = \frac{3}{4} = 75\%$
5	A 10-by-10 grid has 32 shaded squares. Write the shaded part as a decimal, a fraction in simplest form, and a percent.	$0.32 = \frac{8}{25} = 32\%$
6	Order these amounts from least to greatest: $\frac{5}{6}$, 0.8, 85%.	$0.8 < \frac{5}{6} < 85\%$

PART 2 • APPLY IT

- $\frac{3}{4}$, 0.75, 75%** Simplify $\frac{9}{12}$ by dividing the numerator and denominator by 3. Then convert $\frac{3}{4}$ to 0.75 and 75%.
- $\frac{5}{8}$, 0.625, 62.5%** Divide 1.25 by 2 to find that Jalen listens to 0.625 of the playlist. Write 0.625 as $\frac{5}{8}$ and multiply by 100 for the percent.

CHALLENGE

$$1.25 = 125\% = \frac{5}{4} = 1 \frac{1}{4}$$

Accept equivalent fractions that are equal to the requested value when the item does not require simplest form. For fraction answers labeled simplest form, require the fraction to be reduced.