

Tenths and Hundredths

Use matching parts to add and compare decimals and fractions.

GRADE 4 • 4.NR.5

4.NR.5 "Solve real-life problems involving addition, equivalence, comparison of fractions with denominators of 10 and 100, and comparison of decimal numbers as tenths and hundredths using part-whole strategies and visual models."

NAME _____

DATE _____

MATCH THE PARTS

Change tenths to hundredths when you need matching parts.
Since $1/10 = 10/100$, you can add or compare by counting hundredths.

WORKED EXAMPLE

Find $0.46 + 0.30$.

1. Write 0.46 as $46/100$ and 0.30 as $30/100$.
2. Add the hundredths: $46/100 + 30/100 = 76/100$.
3. Write $76/100$ as 0.76.

Answer: 0.76

PRACTICE 6 problems

1 Write an equivalent fraction: $7/10 = \underline{\hspace{1cm}}/100$

ANSWER _____

2 Write $>$, $<$, or $=$. $0.58 \underline{\hspace{1cm}} 0.61$

ANSWER _____

3 Find $34/100 + 5/10$.

ANSWER _____

4 Which is greater: $9/10$ or $87/100$?

ANSWER _____

5 Find $0.23 + 0.40$.

ANSWER _____

6 Write $>$, $<$, or $=$. $68/100 \underline{\hspace{1cm}} 7/10$

ANSWER _____

APPLY IT Show your work

- 1** Mia completed 0.42 of her reading chart on Monday and 0.18 on Tuesday. What fraction of her chart did she complete altogether?

WORK SPACE

ANSWER _____

- 2** Jalen filled $\frac{73}{100}$ of a game progress bar. Priya filled $\frac{7}{10}$ of her progress bar. Who filled more of a progress bar?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A fitness app shows 0.28 of a workout for stretching and $\frac{49}{100}$ for drills. Is the total less than or greater than 0.80 of the workout? Write an equation and a sentence to explain.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write an equivalent fraction: $7/10 = \underline{\hspace{1cm}}/100$	70/100
2	Write $>$, $<$, or $=$. $0.58 \underline{\hspace{1cm}} 0.61$	$<$
3	Find $34/100 + 5/10$.	84/100, or 0.84
4	Which is greater: $9/10$ or $87/100$?	9/10
5	Find $0.23 + 0.40$.	0.63
6	Write $>$, $<$, or $=$. $68/100 \underline{\hspace{1cm}} 7/10$	$<$

PART 2 • APPLY IT

1. **60/100, or 6/10** Change the decimals to $42/100$ and $18/100$. Add to get $60/100$, which is $6/10$.
2. **Jalen** Write $7/10$ as $70/100$. Since $73/100$ is greater than $70/100$, Jalen filled more.

CHALLENGE

$0.28 + 49/100 = 28/100 + 49/100 = 77/100$. The total is less than 0.80 because $77/100$ is less than $80/100$.

Accept equivalent forms such as 0.60 , $60/100$, and $6/10$ when they name the same amount. For the challenge, accept any correct equation and explanation that compares $77/100$ with $80/100$.