

Decimal Detail Detectives

Compare tenths and hundredths with care.

GRADE 4 • TEKS 4.2

4.2 "Number and operations. The student applies mathematical process standards to represent, compare, and order whole numbers and decimals and understand relationships related to place value..."

NAME _____

DATE _____

COMPARE PLACE VALUES

To compare decimals, line up the decimal points. Compare the tenths first, then compare the hundredths if the tenths are equal. You can write a zero in an empty hundredths place.

WORKED EXAMPLE

Compare 6.47 and 6.39.

1. Both numbers have 6 ones.
2. Compare the tenths: 4 tenths is greater than 3 tenths.
3. The tenths decide which number is greater.

Answer: $6.47 > 6.39$

PRACTICE 6 problems

1 What is the value of the 8 in 0.58?

ANSWER _____

2 Write $37/100$ as a decimal.

ANSWER _____

3 Write $<$, $>$, or $=$ to compare: 4.06 ___ 4.6

ANSWER _____

4 Order from least to greatest: 0.72, 0.27, 0.70

ANSWER _____

5 Which amount is greater: \$8.09 or \$8.90?

ANSWER _____

6 A number line starts at 1.20 and is marked every hundredth. A point is at the seventh tick after 1.20. What decimal names the point?

ANSWER _____

APPLY IT Show your work

- 1** At a school book fair, a comic costs \$5.08 and a puzzle book costs \$5.80. Which item costs less? How much less does it cost?

WORK SPACE

ANSWER _____

- 2** Leo finished $\frac{7}{10}$ of his reading chart. Nia finished $\frac{68}{100}$ of her reading chart. Write each amount as a decimal. Who finished more, and by how much?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Order 0.6, 0.06, 0.60, and 0.66 from least to greatest. Then explain why two of the decimals are equal.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	What is the value of the 8 in 0.58?	0.08
2	Write $37/100$ as a decimal.	0.37
3	Write $<$, $>$, or $=$ to compare: 4.06 ___ 4.6	$4.06 < 4.6$
4	Order from least to greatest: 0.72, 0.27, 0.70	0.27, 0.70, 0.72
5	Which amount is greater: \$8.09 or \$8.90?	\$8.90
6	A number line starts at 1.20 and is marked every hundredth. A point is at the seventh tick after 1.20. What decimal names the point?	1.27

PART 2 • APPLY IT

1. **The comic costs less. It costs \$0.72 less.** Compare \$5.08 and \$5.80 to see that the comic costs less. Subtract \$5.08 from \$5.80 to get \$0.72.
2. **Leo: 0.70. Nia: 0.68. Leo finished more by 0.02.** Write $7/10$ as 0.70 and $68/100$ as 0.68. Since 0.70 is greater than 0.68, the difference is 0.02.

CHALLENGE

$0.06 < 0.6 = 0.60 < 0.66$. The decimals 0.6 and 0.60 are equal because both have 6 tenths.

Accept 0.7 or 0.70 for $7/10$, since both name the same value. For comparison explanations, accept language that correctly identifies tenths and hundredths.