

Decimal Detectives

Compare, order, and locate decimals to the hundredths.

GRADE 4 • MA.4.NSO.1.5

MA.4.NSO.1.5 "Plot, order and compare decimals up to the hundredths."

NAME _____

DATE _____

COMPARE PLACE VALUES

Line up the decimal points before you compare decimals. Compare the whole-number digits first, then the tenths, then the hundredths. You can write a zero in an empty place, such as $0.6 = 0.60$.

WORKED EXAMPLE

Compare 2.16 and 2.19. Write $<$, $>$, or $=$.

1. Line up the decimal points.
2. The whole-number digits are both 2.
3. The tenths digits are both 1.
4. Since $6 < 9$ in the hundredths place, $2.16 < 2.19$.

Answer: $2.16 < 2.19$

PRACTICE 6 problems

1 Write $<$, $>$, or $=$. 0.63 ____ 0.68

ANSWER _____

2 Order from least to greatest: 0.35, 0.53, 0.05, 0.50

ANSWER _____

3 A number line goes from 0.20 to 0.30 and is marked by hundredths. What decimal should you plot at the sixth tick after 0.20?

ANSWER _____

4 Order from greatest to least: 0.71, 0.17, 0.70, 0.07

ANSWER _____

5 Write $<$, $>$, or $=$. 1.04 ____ 1.4

ANSWER _____

6 A number line goes from 0.80 to 0.90 and is marked by hundredths. What decimal should you plot at the sixth tick after 0.80?

ANSWER _____

APPLY IT Show your work

- 1** At an arcade, Jada earned 1.38 tickets in one game, and Luis earned 1.35 tickets in one game. Who earned more tickets?

WORK SPACE

ANSWER _____

- 2** A craft store sells three sticker packs for \$4.25, \$4.05, and \$4.50. List the prices from least to greatest.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Order these distances from least to greatest: 3.07 m, 3.7 m, 3.17 m, 3.70 m. Then explain why two distances are equal.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $<$, $>$, or $=$. 0.63 ____ 0.68	$0.63 < 0.68$
2	Order from least to greatest: 0.35 , 0.53 , 0.05 , 0.50	$0.05, 0.35, 0.50, 0.53$
3	A number line goes from 0.20 to 0.30 and is marked by hundredths. What decimal should you plot at the sixth tick after 0.20 ?	0.26
4	Order from greatest to least: 0.71 , 0.17 , 0.70 , 0.07	$0.71, 0.70, 0.17, 0.07$
5	Write $<$, $>$, or $=$. 1.04 ____ 1.4	$1.04 < 1.4$
6	A number line goes from 0.80 to 0.90 and is marked by hundredths. What decimal should you plot at the sixth tick after 0.80 ?	0.86

PART 2 • APPLY IT

1. **Jada earned more tickets.** Both numbers have 1 in the ones place and 3 in the tenths place. Since 8 hundredths is greater than 5 hundredths, $1.38 > 1.35$.
2. **\$4.05, \$4.25, \$4.50** All three prices have 4 dollars. Compare the tenths and then the hundredths to order the prices.

CHALLENGE

3.07 m, 3.17 m, 3.7 m = 3.70 m. The zero in 3.70 is in the hundredths place, so it does not change the value.

Accept comparison statements written with the correct symbol or words. Accept 0.50 as 0.5 and 3.70 as 3.7 because the values are equivalent.