Comparing Decimals to Hundredths

Name: _____	Date: _____	Score: _____ / 24

Quick Review

To compare two decimals, line up the decimal points and check one place at a time, starting with the **tenths**. The decimal with the larger tenths digit is bigger. If the tenths are equal, look at the **hundredths**. A helpful trick is to give both decimals the same number of places — you can add a zero to the end without changing the value, so $0.5 = 0.50$. Then compare as if they were whole numbers of hundredths: $0.5 = \frac{50}{100}$ and $0.06 = \frac{6}{100}$, so $0.5 > 0.06$. Use the symbols $<$, $>$, and $=$, and remember the symbol always points to the **smaller** number.

◇ **Example:** Compare 0.3 and 0.27 using $<$, $>$, or $=$.

⇒ Let's give both decimals two places so they are easy to compare. Add a zero to 0.3 to make 0.30. Now compare 0.30 and 0.27. The tenths digit of 0.30 is 3, and the tenths digit of 0.27 is 2. Since 3 is greater than 2, we know 0.30 is bigger. So $0.3 > 0.27$. Don't be fooled — more digits does not mean a bigger number!

Answer: $0.3 > 0.27$

PRACTICE

Compare each pair of decimals. Write <, >, or = in the blank.

1. $0.3 \square 0.7$ _____

2. $0.9 \square 0.4$ _____

3. $0.5 \square 0.50$ _____

4. $0.6 \square 0.06$ _____

5. $0.21 \square 0.12$ _____

6. $0.45 \square 0.54$ _____

7. $0.8 \square 0.80$ _____

8. $0.07 \square 0.7$ _____

9. $0.33 \square 0.3$ _____

10. $0.4 \square 0.40$ _____

11. $0.62 \square 0.71$ _____

12. $0.99 \square 0.9$ _____

13. $0.15 \square 0.51$ _____

14. $0.2 \square 0.19$ _____

15. $0.86 \square 0.86$ _____

16. $0.7 \square 0.68$ _____

17. $0.04 \square 0.40$ _____

18. $0.58 \square 0.5$ _____

19. $0.3 \square 0.30$ _____

20. $0.91 \square 0.19$ _____

♦ Word Problems

21. In long jump practice, Mia jumped 0.5 of a meter and Tom jumped 0.45 of a meter. Who jumped farther? _____

22. A red apple weighs 0.7 of a pound and a green apple weighs 0.65 of a pound. Which apple is heavier? _____

23. Three runners finished a race in 0.3, 0.25, and 0.4 of an hour. List the times in order from least to greatest. _____

24. Sara has 0.8 of a dollar in dimes and Ben has 0.08 of a dollar in pennies. Who has more money? _____

Answer Keys

1. $<$
2. $>$
3. $=$
4. $>$
5. $>$
6. $<$
7. $=$
8. $<$
9. $>$
10. $=$
11. $<$
12. $>$
13. $<$
14. $>$
15. $=$
16. $>$
17. $<$
18. $>$
19. $=$
20. $>$
21. Mia jumped farther $(0.5 > 0.45)$
22. The red apple $(0.7 > 0.65)$
23. $0.25,\ 0.3,\ 0.4$
24. Sara has more $(0.8 > 0.08)$

Step-by-Step Explanations

1. Both have 0 ones. Compare tenths: $3 < 7$, so $0.3 < 0.7$.
2. The tenths digit 9 is greater than 4, so $0.9 > 0.4$.
3. Adding a zero to the end does not change the value: $0.5 = 0.50$.
4. 0.6 is six tenths, but 0.06 is only six hundredths, so $0.6 > 0.06$.
5. Compare tenths first: $2 > 1$, so $0.21 > 0.12$.
6. The tenths digit 4 is less than 5, so $0.45 < 0.54$.
7. 0.8 and 0.80 are the same amount — a trailing zero adds nothing.
8. 0.07 has 0 tenths, but 0.7 has 7 tenths, so $0.07 < 0.7$.
9. Write 0.3 as 0.30. The tenths match, but $3 > 0$ in the hundredths, so $0.33 > 0.3$.
10. $0.4 = 0.40$ — adding a zero at the end keeps the same value.
11. Compare tenths: $6 < 7$, so $0.62 < 0.71$.
12. Write 0.9 as 0.90. Tenths match, but $9 > 0$ in the hundredths, so $0.99 > 0.9$.
13. The tenths digit 1 is less than 5, so $0.15 < 0.51$.
14. Write 0.2 as 0.20. The tenths $2 > 1$, so $0.2 > 0.19$.
15. Every digit matches, so the two decimals are equal.
16. Write 0.7 as 0.70. The tenths $7 > 6$, so $0.7 > 0.68$.
17. 0.04 has 0 tenths but 0.40 has 4 tenths, so $0.04 < 0.40$.
18. Write 0.5 as 0.50. Tenths match, but $8 > 0$ in the hundredths, so $0.58 > 0.5$.
19. 0.3 and 0.30 name the same amount, so they are equal.
20. Compare tenths: $9 > 1$, so $0.91 > 0.19$.
21. Write 0.5 as 0.50. Comparing 0.50 and 0.45, the tenths digit $5 > 4$, so $0.5 > 0.45$ and Mia jumped farther.
22. Write 0.7 as 0.70. Since 7 tenths is more than 6 tenths, $0.7 > 0.65$, so the red apple is heavier.
23. Give each two places: $0.30,\ 0.25,\ 0.40$. Ordering the tenths gives $0.25 < 0.30 < 0.40$, so the order is $0.25,\ 0.3,\ 0.4$.
24. 0.8 is eight tenths of a dollar, but 0.08 is only eight hundredths. Since $0.8 > 0.08$, Sara has more money.

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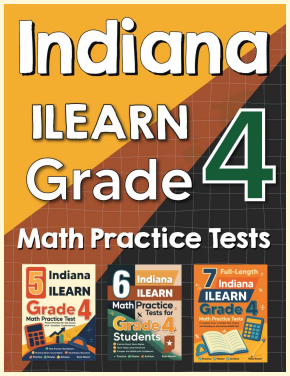

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