

Comparing Decimals to Hundredths

Name: _____ Date: _____ Score: _____ / 24

Q 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. $0.3 \square 0.7$ | _____ | 11. $0.62 \square 0.71$ | _____ |
| 2. $0.9 \square 0.4$ | _____ | 12. $0.99 \square 0.9$ | _____ |
| 3. $0.5 \square 0.50$ | _____ | 13. $0.15 \square 0.51$ | _____ |
| 4. $0.6 \square 0.06$ | _____ | 14. $0.2 \square 0.19$ | _____ |
| 5. $0.21 \square 0.12$ | _____ | 15. $0.86 \square 0.86$ | _____ |
| 6. $0.45 \square 0.54$ | _____ | 16. $0.7 \square 0.68$ | _____ |
| 7. $0.8 \square 0.80$ | _____ | 17. $0.04 \square 0.40$ | _____ |
| 8. $0.07 \square 0.7$ | _____ | 18. $0.58 \square 0.5$ | _____ |
| 9. $0.33 \square 0.3$ | _____ | 19. $0.3 \square 0.30$ | _____ |
| 10. $0.4 \square 0.40$ | _____ | 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

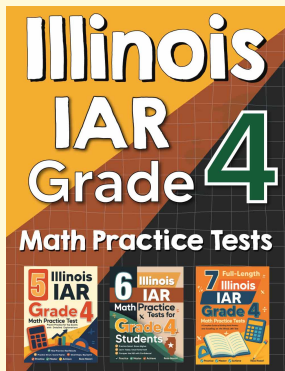
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|-----------------------------|---|
| 1. <input type="radio"/> < | 13. <input type="radio"/> < |
| 2. <input type="radio"/> > | 14. <input type="radio"/> > |
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| 6. <input type="radio"/> < | 18. <input type="radio"/> > |
| 7. <input type="radio"/> = | 19. <input type="radio"/> = |
| 8. <input type="radio"/> < | 20. <input type="radio"/> > |
| 9. <input type="radio"/> > | 21. <input type="text" value="Mia jumped farther (0.5 > 0.45)"/> |
| 10. <input type="radio"/> = | 22. <input type="text" value="The red apple (0.7 > 0.65)"/> |
| 11. <input type="radio"/> < | 23. <input type="text" value="0.25, 0.3, 0.4"/> |
| 12. <input type="radio"/> > | 24. <input type="text" value="Sara has more (0.8 > 0.08)"/> |

Step-by-Step Explanations

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| <p>1. Both have 0 ones. Compare tenths: $3 < 7$, so $0.3 < 0.7$.</p> <p>2. The tenths digit 9 is greater than 4, so $0.9 > 0.4$.</p> <p>3. Adding a zero to the end does not change the value: $0.5 = 0.50$.</p> <p>4. 0.6 is six tenths, but 0.06 is only six hundredths, so $0.6 > 0.06$.</p> <p>5. Compare tenths first: $2 > 1$, so $0.21 > 0.12$.</p> <p>6. The tenths digit 4 is less than 5, so $0.45 < 0.54$.</p> <p>7. 0.8 and 0.80 are the same amount — a trailing zero adds nothing.</p> <p>8. 0.07 has 0 tenths, but 0.7 has 7 tenths, so $0.07 < 0.7$.</p> <p>9. Write 0.3 as 0.30. The tenths match, but $3 > 0$ in the hundredths, so $0.33 > 0.3$.</p> <p>10. $0.4 = 0.40$ — adding a zero at the end keeps the same value.</p> <p>11. Compare tenths: $6 < 7$, so $0.62 < 0.71$.</p> <p>12. Write 0.9 as 0.90. Tenths match, but $9 > 0$ in the hundredths, so $0.99 > 0.9$.</p> <p>13. The tenths digit 1 is less than 5, so $0.15 < 0.51$.</p> | <p>14. Write 0.2 as 0.20. The tenths $2 > 1$, so $0.2 > 0.19$.</p> <p>15. Every digit matches, so the two decimals are equal.</p> <p>16. Write 0.7 as 0.70. The tenths $7 > 6$, so $0.7 > 0.68$.</p> <p>17. 0.04 has 0 tenths but 0.40 has 4 tenths, so $0.04 < 0.40$.</p> <p>18. Write 0.5 as 0.50. Tenths match, but $8 > 0$ in the hundredths, so $0.58 > 0.5$.</p> <p>19. 0.3 and 0.30 name the same amount, so they are equal.</p> <p>20. Compare tenths: $9 > 1$, so $0.91 > 0.19$.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> |
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