

## COMPARING DECIMALS

## ANSWERS

THE EASIEST WAY TO COMPARE DECIMALS IS TO RE-WRITE THE NUMBERS ON TOP OF EACH OTHER WITH THE DECIMALS LINED UP. THEN START COMPARING EACH DIGIT FROM LEFT TO RIGHT. CHECK OUT THE EXAMPLE TO THE RIGHT.

$$\begin{array}{r} 2.45 \quad ? \quad 2.48 \\ \downarrow \quad \quad \downarrow \quad \quad \downarrow \\ 2.45 \rightarrow 2.45 \rightarrow 2.45 \\ 2.48 \rightarrow 2.48 \rightarrow 2.48 \end{array}$$

COMPARE FROM LEFT TO RIGHT UNTIL YOU SEE A DIFFERENCE. FIRST COMPARE THE TWO'S, THEN THE FOUR'S, AND FINALLY THE FIVE AND EIGHT. WHICH ONE IS BIGGER?

SEE HOW THE DECIMALS ARE LINED UP?

Compare. Write  $<$ ,  $>$ ,  $=$  in each  $\bigcirc$ .

- |                                |                                |                                |
|--------------------------------|--------------------------------|--------------------------------|
| 1. $0.23568 \bigcirc 0.23658$  | 2. $-2.0028 \bigcirc 2.0012$   | 3. $12.779 \bigcirc 12.797$    |
| 4. $4.8181 \bigcirc -4.8811$   | 5. $5.1523 \bigcirc 5.5132$    | 6. $0.0043 \bigcirc 0.00043$   |
| 7. $3.0023 \bigcirc 3.2300$    | 8. $8.2204 \bigcirc 8.2402$    | 9. $-5.560 \bigcirc -5.56$     |
| 10. $9.236 \bigcirc 0.9236$    | 11. $0.00450 \bigcirc 0.04500$ | 12. $4.2356 \bigcirc -4.2365$  |
| 13. $0.23599 \bigcirc 0.23589$ | 14. $8.7500 \bigcirc 8.75$     | 15. $24.5689 \bigcirc 2.45689$ |

Write the decimals in order from least to greatest.

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|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 16. $0.2568$ ; $0.32$ ; $0.28$ ; $0.257$<br><b><math>0.2568</math> ; <math>0.257</math> ; <math>0.28</math> ; <math>0.32</math></b>     | 17. $4.30$ ; $4.2582$ ; $4.701$ ; $0.469$<br><b><math>0.469</math> ; <math>4.2582</math> ; <math>4.30</math> ; <math>4.701</math></b> | 18. $8.59$ ; $0.868$ ; $8.059$ ; $8.6$<br><b><math>0.868</math> ; <math>8.059</math> ; <math>8.59</math> ; <math>8.6</math></b>       |
| 19. $-4.023$ ; $0.423$ ; $-4.23$ ; $0.234$<br><b><math>-4.23</math> ; <math>-4.023</math> ; <math>0.234</math> ; <math>0.423</math></b> | 20. $1.972$ ; $-1.99$ ; $0.972$ ; $-0.97$<br><b><math>-1.99</math> ; <math>-0.97</math> ; <math>0.972</math> ; <math>1.972</math></b> | 21. $-1.09$ ; $-0.191$ ; $-1.10$ ; $0.01$<br><b><math>-1.10</math> ; <math>-1.09</math> ; <math>-0.191</math> ; <math>0.01</math></b> |

Write each word form in standard form.

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|----------------------------------------|---|---------------------|
| 22. Eighty-two hundredths              | → | <u><b>0.82</b></u>  |
| 23. seven thousandths                  | → | <u><b>0.007</b></u> |
| 24. four hundred sixty-two thousandths | → | <u><b>0.462</b></u> |
| 25. Eight tenths                       | → | <u><b>0.8</b></u>   |

Helpful Examples

- $0.234$  (standard form)  
 two hundred thirty-four thousandths (word form)
- $0.034$   
 thirty-four thousandths
- $0.03$   
 three hundredths

Answer the word problems.

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26. In Sunny Ville it rained 1.008 inches in July. In October it rained 1.53 inches, in April it rained 1.6 inches, and in November it rained 1.482 inches. In which month did it rain the most? <b>April</b> | 27. Mike rode his bike 6.62 miles on Monday, 5.97 miles on Wednesday, 6.57 miles on Friday, and 6.089 miles on Saturday. Which day did he ride the farthest? <b>Monday</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|