

## COMPARING DECIMALS

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.

$$\begin{array}{r} 8.35 \quad ? \quad 8.48 \\ \downarrow \quad \quad \downarrow \\ \mathbf{8.35} \rightarrow \mathbf{8.35} \\ \mathbf{8.47} \rightarrow \mathbf{8.47} \end{array}$$

COMPARE FROM LEFT TO RIGHT UNTIL YOU SEE A DIFFERENCE. FIRST COMPARE THE EIGHT'S, THEN THE THREE AND FOUR. SINCE THEY ARE DIFFERENT YOU CAN USE THESE TO FIGURE OUT WHICH ONE IS BIGGER. SINCE THEY ARE DIFFERENT YOU CAN STOP! WHICH ONE IS BIGGER?

SEE HOW THE DECIMALS ARE LINED UP?

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

1.  $2.35 \bigcirc 2.37$   $<$

2.  $8.54 \bigcirc 0.854$   $>$

3.  $3.11 \bigcirc 3.13$   $<$

4.  $4.20 \bigcirc 4.5$   $<$

5.  $0.503 \bigcirc 5.03$   $<$

6.  $1.972 \bigcirc 1.927$   $>$

7.  $6.025 \bigcirc 6.25$   $<$

8.  $2.40 \bigcirc 2.4000$   $=$

9.  $5.151 \bigcirc 5.51$   $<$

10.  $2.62 \bigcirc 26.2$   $<$

11.  $4.47 \bigcirc 4.047$   $>$

12.  $6.4286 \bigcirc 64.28$   $<$

13.  $5.5500 \bigcirc 5.55$   $=$

14.  $46.21 \bigcirc 46.210$   $=$

15.  $70.08 \bigcirc 7.0085$   $>$

Write the decimals in order from least to greatest.

16.  $0.456 ; 0.564 ; 0.5 ; 0.423$   
 **$0.423 ; 0.456 ; 0.5 ; 0.564$**

17.  $8.30 ; 8.245 ; 8.05 ; 8.42$   
 **$8.05 ; 8.245 ; 8.30 ; 8.42$**

18.  $3.12 ; 3.21 ; 31.2 ; 3.121$   
 **$3.12 ; 3.121 ; 3.21 ; 31.2$**

19.  $9.82 ; 9.72 ; 0.972 ; 9.8$   
 **$0.972 ; 9.72 ; 9.8 ; 9.82$**

20.  $1.972 ; 1.99 ; 0.972 ; 0.97$   
 **$0.97 ; 0.972 ; 1.972 ; 1.99$**

21.  $4.09 ; 0.05 ; 0.49 ; 4.100$   
 **$0.05 ; 0.49 ; 4.09 ; 4.100$**

Write each word form in standard form.

22. four thousandths  $\longrightarrow$  **0.004**

23. five tenths  $\longrightarrow$  **0.5**

24. one hundred thirteen thousandths  $\longrightarrow$  **0.113**

25. six hundredths  $\longrightarrow$  **0.06**

Helpful Examples

tenths  
hundredths  
thousandths

$0.234$  (standard form)  
 $\hookrightarrow$  two hundred thirty-four thousandths (word form)

$0.034$   
 $\hookrightarrow$  thirty-four thousandths

$0.03$   
 $\hookrightarrow$  three hundredths

Answer the word problems.

26. Joan asked four students how much TV they watched last night. Mika watched 2.3 hours, Keith watched 2.48 hours, Timbo watched 2.09 hours, and Fue watched 2.27 hours. Who watched the most?

**Keith**

27. During yesterday's walkathon, Gee walked 6.23 km, Kool walked 5.84 km, Yoku walked 6.32 km, and Bear walked 5.48 km. Who walked the farthest? **Yoku**