

# Comparing and Ordering Decimals

Grade 5 Math • Section 1.4

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 14

## Quick Review and Helpful Hints

**👉 Comparing decimals:** Line up the decimal points and compare digits from left to right. The first place where the digits differ tells you which number is larger.

**👉 Annexing zeros:**  $0.5 = 0.50 = 0.500$ . Adding zeros to the right of the last decimal digit does **not** change the value.

**💡** Use  $<$ ,  $>$ , or  $=$  to compare.

**🔍 Example:** Compare 4.538 and 4.54.

**👉** Write 4.54 as 4.540 so both numbers have three decimal places. Now compare digit by digit from left to right. Ones: both 4. Tenths: both 5. Hundredths: 3 vs. 4. Since  $3 < 4$ , we have  $4.538 < 4.540$ .

**💡 Answer:**  $4.538 < 4.54$

## 🔗 Practice Problems

Write  $<$ ,  $>$ , or  $=$  to compare each pair.

- |                          |       |  |       |
|--------------------------|-------|--|-------|
| 1. $0.72 \bigcirc 0.720$ | _____ | 7. $0.4 \bigcirc 0.400$                            | _____ |
| 2. $3.45 \bigcirc 3.405$ | _____ | 8. $6.15 \bigcirc 6.105$                           | _____ |
| 3. $0.089 \bigcirc 0.1$  | _____ | 9. $0.52 \bigcirc 0.520$                           | _____ |
| 4. $12.6 \bigcirc 12.60$ | _____ | 10. $9.091 \bigcirc 9.19$                          | _____ |
| 5. $5.009 \bigcirc 5.01$ | _____ | 11. Order from least to greatest: 3.2, 3.02, 3.22  | _____ |
| 6. $7.830 \bigcirc 7.83$ | _____ | 12. Order from greatest to least: 0.505, 0.55, 0.5 | _____ |

## 📝 Word Problems

13. Three runners finish a race in 12.4 seconds, 12.38 seconds, and 12.401 seconds. Order their times from fastest (least) to slowest (greatest).

14. Carlos says 0.30 is greater than 0.3 because  $30 > 3$ . Is he correct? Explain your reasoning.

\_\_\_\_\_

\_\_\_\_\_



## Answer Keys

1.  $\boxed{=}$

2.  $\boxed{>}$

3.  $\boxed{<}$

4.  $\boxed{=}$

5.  $\boxed{<}$

6.  $\boxed{=}$

7.  $\boxed{=}$

8.  $\boxed{>}$

9.  $\boxed{=}$

10.  $\boxed{<}$

11.  $\boxed{3.02, 3.2, 3.22}$

12.  $\boxed{0.55, 0.505, 0.5}$

13.  $\boxed{12.38, 12.4, 12.401}$

14.  $\boxed{\text{No}}$

### Step-by-Step Explanations

1. Start with the main idea. For comparing and ordering decimals, write both decimals to the same number of places: 0.72 and 0.720. Therefore the symbol is  $=$ . Line up decimal places before comparing so tenths are compared with tenths and hundredths with hundredths.

2. Keep the work tidy. For comparing and ordering decimals, write both decimals to the same number of places: 3.45 and 3.405. Therefore the symbol is  $>$ . Adding trailing zeros can make the comparison easier without changing the number.

3. Look at what the numbers mean. For comparing and ordering decimals, write both decimals to the same number of places: 0.089 and 0.1. Therefore the symbol is  $<$ . For race times, remember that a smaller time means a faster finish.

4. Use the setup first. For comparing and ordering decimals, write both decimals to the same number of places: 12.6 and 12.60. Therefore the symbol is  $=$ . Line up decimal places before comparing so tenths are compared with tenths and hundredths with hundredths.

5. Check the size of the answer. For comparing and ordering decimals, write both decimals to the same number of places: 5.009 and 5.01. Therefore the symbol is  $<$ . Adding trailing zeros can make the comparison easier without changing the number.

6. Match the operation to the words. For comparing and ordering decimals, write both decimals to the same number of places: 7.830 and 7.83. Therefore the symbol is  $=$ . For race times, remember that a smaller time means a faster finish.

7. Write the important values first. For comparing and ordering decimals, write both decimals to the same number of places: 0.4 and 0.400. Therefore the

symbol is  $=$ . Line up decimal places before comparing so tenths are compared with tenths and hundredths with hundredths.

8. Follow the pattern carefully. For comparing and ordering decimals, write both decimals to the same number of places: 6.15 and 6.105. Therefore the symbol is  $>$ . Adding trailing zeros can make the comparison easier without changing the number.

9. Start with the main idea. For comparing and ordering decimals, write both decimals to the same number of places: 0.52 and 0.520. Therefore the symbol is  $=$ . For race times, remember that a smaller time means a faster finish.

10. Keep the work tidy. For comparing and ordering decimals, write both decimals to the same number of places: 9.091 and 9.19. Therefore the symbol is  $<$ . Line up decimal places before comparing so tenths are compared with tenths and hundredths with hundredths.

11. Look at what the numbers mean. For comparing and ordering decimals, compare by place value:  $3.020 < 3.200 < 3.220$ . Adding trailing zeros can make the comparison easier without changing the number.

12. Use the setup first. For comparing and ordering decimals, compare thousandths:  $0.550 > 0.505 > 0.500$ . For race times, remember that a smaller time means a faster finish.

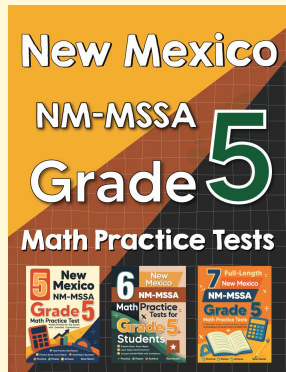
13. Check the size of the answer. For comparing and ordering decimals, fastest means least time:  $12.380 < 12.400 < 12.401$ . Line up decimal places before comparing so tenths are compared with tenths and hundredths with hundredths.

14. Match the operation to the words. For comparing and ordering decimals, 0.30 and 0.3 name the same amount because trailing zeros do not change a decimal's value. Adding trailing zeros can make the comparison easier without changing the number.



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