

## Math 6 Practice Test: Decimals

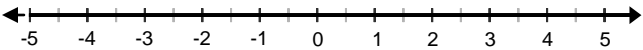
Name:

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1. Define *decimal* and give an example.
  
  
  
  
  
  
  
  
  
  
2. Describe how to determine which decimal value is larger: 10.09 or 10.0355 ?
  
  
  
  
  
  
  
  
  
  
3. Write the algorithm for *multiplying decimals*.
  
  
  
  
  
  
  
  
  
  
4. What is the value of the digit 4 in the number 38.145 ?
  - A. 4 hundredths
  - B. 4 ones
  - C. 4 tens
  - D. 4 thousandths
  
  
  
  
  
  
  
  
  
  
5. Graph the following rational numbers on the number line below.

$2.7, -3, 0.6, 3.45, -1.71$


  
  
  
  
  
  
  
  
  
  
6. A speed skater was timed for four individual laps. The first lap was 40.7 seconds, the second lap 40.737 seconds, the next lap 40.37 seconds and the last lap 40.387 seconds. What is the correct order of the times from the least amount of time to the greatest amount of time?
  - A. 40.37    40.7    40.387    40.737
  - B. 40.37    40.387    40.7    40.737
  - C. 40.387    40.37    40.7    40.737
  - D. 40.387    40.37    40.737    40.7

7. Round 12.3155 to the nearest tenth.
8. In which set are the numbers all between 0.6 and 1.86?
- A. 0.745, 2, 1.75
  - B. 0.607, 1.87, 1.206
  - C. 0.7, 1.37, 1.8
  - D. 0.49, 1.06, 1.972

9. Carmen bought the following lengths of ribbon.

Blue ribbon: 3.15 yards  
Yellow ribbon: 4.72 yards  
Green ribbon: 1.87 yards

Which is the **best** ESTIMATE of the total number of yards of ribbon Carmen bought? Show your work.

- A. 8 yards
  - B. 9 yards
  - C. 10 yards
  - D. 11 yards
10. Simplify.
- a.  $|-4.3| =$                       b.  $-(-1.7) =$                       c. The opposite of the opposite of **3.12** is \_\_\_\_\_.

11. Arnold bought a computer during a store promotion that allowed him to pay for it over time. His current account balance for this purchase is less than  $-575$  dollars. Describe Arnold's debt to the store.

12. Find the sum. Show your work.  
 $2.21 + 3 + 23.947$

13. Evaluate. Show your work.  
 $41 - 8.02$

14. Find the product. Show your work.  
 $3.41 \times 0.26$

15. Find the quotient. Show your work.  
 $0.85 \div 5$



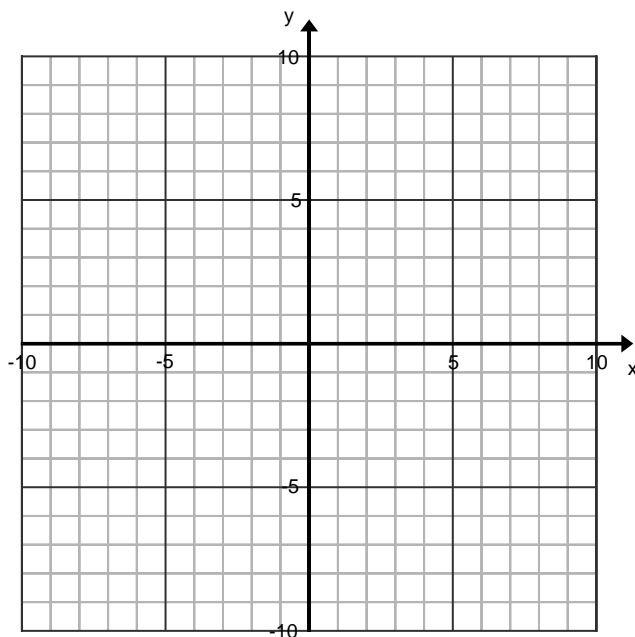
20. There are 250 students going on a field trip. If each bus holds 58 students, how many buses are needed for the field trip? Explain your thinking.



21. The star Alpha Centauri is 4.3 light years away from Earth. The star Betelgeuse is about 121 times as far from Earth as Alpha Centauri. About how many light years away from Earth is Betelgeuse?

**Long term memory review:**

22. Graph the following ordered pairs on the graph below and label each point.  
 A (0, -7)    B (-4, -7)    C (-9, 0)  
 D (4, -6)    E (7, 3)



23. Write the ordered pair for the missing point that could complete the rectangle below. Identify what Quadrant it is located in.

