

Palomar College Math Placement Test Study Guide
Prealgebra Topics

Topic 3: Operations with Decimals

1. $15.96 + 59 + 102.0832 =$
2. $123.04 - 8.571 =$
3. $5.7 \times 0.648 =$
4. $0.28 \div 0.7 =$
5. 0.0123 divided by what number is 12.3?
6. Which of the following is the greatest?

0.206, 0.026, 0.26, 0.062
7. Place in order from least to greatest.

 $\frac{7}{3}$, $\frac{3}{7}$, 0.73, 7.3, 3.7
8. A caterer purchased drinks for a party. She bought $8\frac{3}{4}$ liters of ginger ale, 19.45 of punch and $13\frac{1}{2}$ liters of water. How many liters of drinks did the caterer buy?
9. Write as a decimal: $3\frac{7}{8}$
10. $0.49999 \times 14.123456789111$ is approximately equal to

a. 0.07 b. 0.7 c. 7 d. 70
11. A taxi charges \$0.75 for the first $\frac{1}{4}$ of a mile and \$0.15 for each additional $\frac{1}{8}$ mile. What is the cost of a 4-mile trip?
12. Three students wish to purchase tickets to a concert. The tickets cost \$31.50 each. However, there is a special price of \$100 for a group of four tickets purchased together. How much would each student save

if they get another person to join them and the four people equally divide the price of a 4-ticket group?

Answers are on the next page.

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Answers:

- 1) 177.0432
- 2) 114.469
- 3) 3.6936
- 4) 0.4
- 5) 0.001
- 6) 0.26
- 7) $\frac{3}{7}$, 0.73, $\frac{7}{3}$, 3.7, 7.3
- 8) The caterer bought 41.7 liters of drinks.
- 9) 3.875
- 10) (c)
- 11) The cost of a 4-mile trip is \$5.25.
- 12) Each student would save \$6.50.