

## Algebra I Decimals, Fractions, & Percents

### 1.1 Comparing & Ordering Decimals

#### Sponge Problems

1. Simplify:  $8 * 3^2 + 7 * (6 - 4)$  (M8.A.2.1.1)  
A. 62                      B. 86                      C. 110                      D. 590
2. Jim earned \$127.59 last month. He spent about 20% of the money. Which is the closest estimate of the amount of money Jim spent? (M8.A.3.2.1)  
A. \$13                      B. \$20                      C. \$26                      D. \$30

#### Review Problems

3. Michael bought a 4-pound package of ground beef for \$11.56. What is the cost per pound of the ground beef?
4. Doreen had 15 **yards** (yd) of string. She used 11 **feet** (ft) of string to tie some boxes together. What is the total length of string that Doreen has left?
5. The radius of a circle is 8 centimeters (cm). What is the approximate circumference of the circle? (Use  $\pi = 3.14$ )
6. The diameter of a circular plate is 11.5 inches. What is the radius of the plate in inches?
7. The formula below is used to convert Fahrenheit (F) temperatures to Celsius(C).  
$$C = 10(F - 32) \div 18$$
  
The temperature outside is 41°F. What is the temperature in degrees Celsius?
8. A radio station plays 15 songs each hour. At this rate, how many hours will it take the radio station to play 75 songs?

#### Copy and complete the statement using $<$ , $>$ , or $=$ .

- |                     |                    |                     |
|---------------------|--------------------|---------------------|
| 9. 1.48 ___ 1.413   | 10. 0.809 ___ 0.81 | 11. 5.47 ___ 5.43   |
| 12. 0.01 ___ 0.005  | 13. 35.2 ___ 35    | 14. 6.24 ___ 6.2    |
| 15. 1.674 ___ 1.678 | 16. 20.05 ___ 20.3 | 17. 9.018 ___ 9.017 |

#### Order the numbers from least to greatest.

- |                          |                           |                           |
|--------------------------|---------------------------|---------------------------|
| 18. 2.5, 2.3, 2.45, 2.38 | 19. 7.01, 7.13, 7.3, 7.03 | 20. 10.19, 10.2, 10, 10.4 |
| 21. 0.3, 0.47, 0.9, 0.15 | 22. 1.3, 1.05, 1.11, 1.0  | 23. 12.6, 10.9, 11, 11.9  |
| 24. 6.1, 6.89, 7.25, 7   | 25. 3.1, 3.3, 0.3, 1.33   | 26. 5.46, 5.4, 5.64, 5.6  |