



Module Test

A

Module 5



Round each decimal to the nearest whole number, nearest tenth, and nearest hundredth.

1. 0.189
0; 0.2; 0.19

2. 12.114
12; 12.1; 12.11

3. 24.555
25; 24.6; 24.56

4. Order 0.33, -0.41, $\frac{1}{5}$, 0.57 from least to greatest. -0.41, $\frac{1}{5}$, 0.33, 0.57

5. Order -0.7, -2, -0.9, $-\frac{1}{10}$ from greatest to least. $-\frac{1}{10}$, -0.7, -0.9, -2

Use <, >, or = to compare each set of numbers.

6. $\frac{2}{3}$ and 0.68
 $\frac{2}{3} < 0.68$

7. 40% and 0.04
40% > 0.04

8. 4.3 and $4\frac{3}{10}$
 $4.3 = 4\frac{3}{10}$

Evaluate these expressions. Show your work.

9. $7.32 + 2.901$
10.221

10. $0.6 + 1.82 + 0.009$
2.429

11. $2.3 - 0.23$
2.07

12. 0.8×0.07
0.056

13. 9×0.045
0.405

14. 11.2×3.04
34.048

15. $3 \div 11$

$0.\overline{27}$

16. $84.1 \div 2$

42.05

17. $49.83 \div 3.02$

16.5

Circle the correct answer for each problem.

18. Evaluate -3^3 .

a. -27
-27

b. -9

c. 9

d. 27

19. Evaluate $(-2)^{-4}$.

a. -16

b. $-\frac{1}{16}$

c. $\frac{1}{16}$
 $\frac{1}{16}$

d. 16

20. Evaluate $4^3 + (9 - 5)^0$.

a. 13

b. 16

c. 65
65

d. 68

21. 10^{-4} is equivalent to _____.

a. 0.00001

b. 0.0001
0.0001

c. -0.0001

d. -0.00001

22. 71,200,000 written in scientific notation is _____.

a. 0.712×10^8

b. 7.12×10^7
 7.12×10^7

c. 71.2×10^6

d. 712×10^5

Answer the following questions.

23. Is 14.3×10^{-7} written in scientific notation? Tell why or why not. If not, write the number in scientific notation.

No: 14.3 is not less than 10. The correct form is 1.43×10^{-6} .

24. Jackson scored a 65% on his test and Larry correctly answered 12 out of 20 questions on the same test. Who had the higher score? Explain how you found your answer.

Jackson had the higher score. I first converted each number to its decimal

equivalent: $65\% = 0.65$; $\frac{12}{20} = 0.60$

$0.65 > 0.60$

25. Show how to use exponents to answer the following problem. Oliver spent three hours reading in one week. If he doubles his reading time each week, how much time would Oliver spend reading in week four?

Week 1: 3

Week 2: 3×2

Week 3: 3×2^2

Week 4: 3×2^3

$3 \times 2^3 = 3 \times 8 = 24$

Oliver would spend 24 hours reading in week four.

