



# Module Test

# B

# Module 5



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

1. 1.166

1; 1.2; 1.17

2. 40.159

40; 40.2; 40.16

3. 11.324

11; 11.3; 11.32

4. Order 0.45, -0.5,  $\frac{1}{2}$ , 0.49 from least to greatest. -0.5, 0.45, 0.49,  $\frac{1}{2}$

5. Order -0.1, -0.3, -1,  $-\frac{3}{4}$  from greatest to least. -0.1, -0.3,  $-\frac{3}{4}$ , -1

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

6.  $\frac{1}{4}$  and 0.2

$\frac{1}{4} > 0.2$

7. 60% and 0.6

60% = 0.6

8. 5.1 and  $5\frac{7}{10}$

$5.1 < 5\frac{7}{10}$

Evaluate these expressions. Show your work.

9.  $9.77 + 1.325$

11.095

10.  $0.035 + 2.9 + 0.44$

3.375

11.  $4 - 0.89$

3.11

12.  $0.05 \times 0.9$

0.045

13.  $8 \times 0.104$

0.832

14.  $18.3 \times 6.25$

114.375

15.  $10 \div 11$

$\overline{0.90}$

16.  $56.7 \div 5$

11.34

17.  $97.24 \div 8.8$

11.05

Circle the correct answer for each problem.

18. Evaluate  $-2^6$ .

a. -64

**-64**

b. -12

c. 12

d. 64

19. Evaluate  $(3)^{-4}$ .

a. -81

b. -12

c.  $-\frac{1}{81}$

d.  $\frac{1}{81}$

**$\frac{1}{81}$**

20. Evaluate  $(3 + 1)^0 + (-5)^2$ .

a. -24

b. -21

c. 26

**26**

d. 29

21.  $10^5$  is equivalent to \_\_\_\_\_.

a. 1,000

b. 10,000

c. 100,000

**100,000**

d. 1,000,000

22. 0.0000000424 written in scientific notation is \_\_\_\_\_.

a.  $0.424 \times 10^{-7}$

b.  $4.24 \times 10^{-8}$

**$4.24 \times 10^{-8}$**

c.  $42.4 \times 10^{-9}$

d.  $424 \times 10^{-10}$

Answer the following questions.

23. Is  $0.35 \times 10^{11}$  written in scientific notation? Tell why or why not. If not, write the number in scientific notation.

**No; 0.35 is not greater than one. The correct form is  $3.5 \times 10^{10}$ .**

24. Toya completed 75% of her class assignments and Jackie completed 19 out of 25 of the same assignments. Who completed more of the class assignments? Explain how you found your answer.

**Jackie completed more of the class assignments. I first converted each number**

**to its decimal equivalent:  $75\% = 0.75$ ;  $\frac{19}{25} = 0.76$**

**$0.75 < 0.76$**

25. Show how to use exponents to answer the following problem. Jerome bought four packs of baseball cards one month. If he triples the number of packs he buys each month, how many packs of baseball cards would he buy in month four?

**Month 1: 4**

**Month 2:  $4 \times 3$**

**Month 3:  $4 \times 3^2$**

**Month 4:  $4 \times 3^3$**

**$4 \times 3^3 = 4 \times 27 = 108$**

**Jerome would buy 108 packs in month four.**

