



## Module Test

## A

## Module 1



Solve each of the following. Show your work.

1.  $23 - 7 \times 3$

2.  $10 + (6 - 4) - 2$

3.  $6^2 - (2^3 + 4)$

4.  $[20 \div 5 + 8] \times 10$

5.  $9 + 7^2 - 3(8 - 1)$

6.  $3^2 + 40 - [8 + 5 \times 2] - 4$

Determine if each number is divisible by 2, 3, 4, 5, 6, 9, or 10. List all the numbers each number is divisible by on the answer line provided. If the number is not divisible by any of the numbers, write “none” on the answer line provided.

7. 836

\_\_\_\_\_

8. 52,331

\_\_\_\_\_

9. 1,080

\_\_\_\_\_

10. 11,150

\_\_\_\_\_

Circle the correct response for each problem.

11. Estimate using front-end estimation with rounding to the nearest hundred: Pedro purchases a television for \$178 and a DVD player for \$165. About how much does he pay for both items?

- a. \$343                      b. \$300                      c. \$350                      d. \$400

12. Round to the nearest thousand: 34,950.

- a. 34,000                      b. 34,900                      c. 35,000                      d. 35,900

13. Estimate using front-end estimation without rounding:  $347 + 274$ .

- a. 500                      b. 600                      c. 621                      d. 630

14. Which is the smallest number divisible by 2, 3, 5, 6, 9, and 10?

- a. 60                      b. 90                      c. 180                      d. 270

15. In the expression  $4 \times 37 - [2 \times 5(7 - 4)] + 5^2$ , which calculation is performed first?

- a.  $4 \times 37$                       b.  $2 \times 5$                       c.  $5^2$                       d.  $7 - 4$

16. Which of the following can be used to calculate  $(12)(18)$ :

- a.  $(12)(20) - (12)(8)$     b.  $(18)(10) - (18)(2)$     c.  $(12)(20) - (12)(2)$     d.  $(18)(10) - (18)(8)$

**Name the property represented by each equation.**

17.  $185 \times 2 = 2 \times 185$  \_\_\_\_\_

18.  $16(10 - 7) = (16)(10) - (16)(7)$  \_\_\_\_\_

19.  $88 \times 0 = 0$  \_\_\_\_\_

20.  $4(8 + 6) = (4)(8) + (4)(6)$  \_\_\_\_\_

21.  $(5 \times 15) \times 6 = 5 \times (15 \times 6)$  \_\_\_\_\_

22.  $(22 + 8) + 4 = (8 + 22) + 4$  \_\_\_\_\_

23.  $175 + 0 = 175$  \_\_\_\_\_

**Answer the following questions in the space provided.**

24. Solve  $(25 \times 213) \times 4$  using mental math and give a reason for each step.

25. Explain compatible numbers and then use compatible numbers to estimate the quotient  $819 \div 47$ .

