Worksheet **1.6**

Exponential Notation and Order of Operations.

Evaluate. See examples on page 55 in text.

1. 5^3

    A) 64   B) 15   C) 243   D) 125

Write exponential notation. See examples on page 55 in text.

2. $13 \cdot 13 \cdot 13 \cdot 13 \cdot 13$

    A) $5 \cdot 13$ B) 13^5 C) 5^{13} D) $5 \cdot 5^{13}$

Simplify. See examples on page 56 in text.

3. $87 - 4 \cdot 2 \cdot 5$

    A) 47   B) 76   C) 830   D) 395

4. $39 \cdot 2 + 3(10 - 8) + 4$

    A) 88   B) 53   C) 76   D) 37

Simplify. See examples on pages 56-57 in text.

5. $4 \cdot (5 + 3)^2 - 4 \cdot (6 - 4)^2$

    A) 960   B) 1008   C) 240   D) 513

Find the average. See examples on page 58 in text.

6. Monthly checking account fees: $15, $12, $4, $12, $6, $1, $6

A) $12   B) $8   C) $7   D) $6

Simplify. See examples on page 58 in text.

7. $2 \times \{(300 - 100 \div 5) - [3 \cdot 24 - (8 - 2 \cdot 3)]\}$

A) $-1,010$ B) 490 C) 2266 D) 420

Write the number in words. See examples on pages 4-5 in text.

8. 22,000,674

A) Twenty-two million, six hundred seventy-four

B) Twenty-two hundred million, six hundred seventy-four

C) Two million, two thousand, six hundred seventy-four

D) Twenty-two million, six thousand seventy-four

Write an addition sentence and a related subtraction sentence corresponding to the situation. You need not carry out the subtraction. See examples on pages 13-14 in text.

9. The record number of points scored in a season by the Morton High School basketball team is 1100. So far this season they have scored 609 points. How many points do they need to score in the rest of the season to tie their record?

A) $1100 + \boxed{} = 1100, \ \boxed{} = 609 - 1100$ B) $1100 + 609 = \boxed{}, \ 1100 - \boxed{} = 609$

C) $609 + \boxed{} = 1100, \ \boxed{} = 1100 - 609$ D) $1100 + 609 = \boxed{}, \ 609 - \boxed{} = 1100$

Write two related subtraction sentences. See examples on page 13 in text.

10. $4 + 52 = 56$

A) $57 - 5 = 52$ and $57 - 53 = 4$ B) $52 - 56 = 4$ and $52 - 4 = 56$

C) $55 - 3 = 52$ and $55 - 51 = 4$ D) $56 - 4 = 52$ and $56 - 52 = 4$