

NAME \_\_\_\_\_

Module 1    Number Sense  
Lesson 1    Order of Operations

# Challenge Problems

## 1.1

### Set 1

Evaluate each of the following.

1  $18 + 3[10 + (8)(3) \div (2)(3)]$

2  $4 \times (3 + 9) \div \{8 \times (2^3 - 2)\}$

### Set 2

Evaluate each of the following.

1  $4^3 \div 8 + 2[3 + 6 \times 3 \div 2]$

2  $7 + 3^3 - 15 \div 3 \times 2 + 5^2$

## Possible Answers

### Set 1

1.  $18 + 3[10 + (8)(3) \div (2)(3)]$   
 $18 + 3[10 + 24 \div (2)(3)]$   
 $18 + 3[10 + 12 \div (3)]$   
 $18 + 3[10 + 36]$   
 $18 + 3[46]$   
 $18 + 138$   
 $156$

2.  $4 \times (3 + 9) \div \{8 \times (2^3 - 2)\}$   
 $4 \times (3 + 9) \div \{8 \times (8 - 2)\}$   
 $4 \times (3 + 9) \div \{8 \times 6\}$   
 $4 \times 12 \div \{8 \times 6\}$   
 $4 \times 12 \div 48$   
 $48 \div 48$   
 $1$

### Set 2

1.  $4^3 \div 8 + 2 [3 + 6 \times 3 \div 2]$   
 $4^3 \div 8 + 2 [3 + 18 \div 2]$   
 $4^3 \div 8 + 2 [3 + 9]$   
 $4^3 \div 8 + 2 [12]$   
 $64 \div 8 + 2 [12]$   
 $8 + 2 [12]$   
 $8 + 24$   
 $32$

2.  $7 + 3^3 - 15 \div 3 \times 2 + 5^2$   
 $7 + 27 - 15 \div 3 \times 2 + 5^2$   
 $7 + 27 - 15 \div 3 \times 2 + 25$   
 $7 + 27 - 5 \times 2 + 25$   
 $7 + 27 - 10 + 25$   
 $34 - 10 + 25$   
 $24 + 25$   
 $49$