

#### Overview of problems



Example Set: A

#### Solve:

- 1. What is the sum of 2 and 9?
- 2. What is the difference of 15 and 4?
- 3. What is the product of 3 and 7?
- 4. What is the quotient of 16 and 4?
- 5. What is the sum of 5.8, 1.6 and 2.9?
- 6. What is the difference of 329 and 144?
- 7. What is the product of 9, 3 and zero?
- 8. What is the quotient of 15 and 30?



Example Set: B

1. 
$$17 - [3(2)]$$

2. 
$$[12-4(1)]+6$$

3. 
$$[16 \div (3+1)] - 2$$

### Overview of problems

4. 
$$\frac{14}{(10-3)\cdot 2}$$

5. 
$$4^2 + 3^2 + 2^2 + 1^2$$

6. 
$$(9-7)^2 \cdot (20-17)^2$$



### Example Set: C

#### Write the expressions using powers:

1. 
$$2 \cdot 2 \cdot 2$$

$$5. \quad 3x \cdot 3x \cdot 3x \cdot 3x$$

$$2. \quad 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3$$

6. 
$$xz \cdot xz \cdot xz \cdot xz \cdot xz$$

7. 
$$(g+h)\cdot(g+h)\cdot(g-h)$$

4. 
$$y \cdot y$$



### r Example Set: D

7. 
$$(-3)^2$$

3. 
$$-3^2$$

8. 
$$|-9| - |4|$$



# Overview of problems

4.  $4^3$ 

9.  $(-5)^3$ 

5. 5 · 4 · 3 · 2 · 1

 $10. \ \frac{0}{10,326} + \frac{11,451}{11,451}$ 



#### Overview of problems



### Example Set: A -ANSWER KEY

#### Solve:

- 1. What is the sum of 2 and 9? =11
- 2. What is the difference of 15 and 4? =11
- 3. What is the product of 3 and 7? =21
- 4. What is the quotient of 16 and 4? =4
- 5. What is the sum of 5.8, 1.6 and 2.9? =10.3
- 6. What is the difference of 329 and 144? =185
- 7. What is the product of 9, 3 and zero? =0
- 8. What is the quotient of 15 and 30?  $=\frac{1}{2}$



### Example Set: B- ANSWER KEY

1. 
$$17 - [3(2)] = 11$$

2. 
$$[12 - 4(1)] + 6 = 14$$

#### Overview of problems

3. 
$$[16 \div (3+1)] - 2 = 2$$

4. 
$$\frac{14}{(10-3)\cdot 2}$$
 =1

5. 
$$4^2 + 3^2 + 2^2 + 1^2 = 30$$

6. 
$$(9-7)^2 \cdot (20-17)^2 = 36$$



## Example Set: C-ANSWER KEY

#### Write the expressions using powers:

1. 
$$2 \cdot 2 \cdot 2 = 2^3$$

2. 
$$3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 = 3^5$$

3. "two to the tenth power" = 
$$2^{10}$$

4. 
$$y \cdot y = y^2$$

5. 
$$3x \cdot 3x \cdot 3x \cdot 3x = (3x)^4$$

6. 
$$xz \cdot xz \cdot xz \cdot xz \cdot xz = (xz)^5$$

7. 
$$(g+h)\cdot (g+h)\cdot (g-h) = (g+h)^2(g-h)$$



#### Overview of problems



# Example Set: D-ANSWER KEY

1. 
$$|-3| = 3$$

2. 
$$2^4 = 16$$

3. 
$$-3^2 = -9$$

4. 
$$4^3 = 64$$

5. 
$$5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 = 120$$

7. 
$$(-3)^2 = 9$$

8. 
$$|-9| - |4| = 5$$

9. 
$$(-5)^3 = -125$$

10. 
$$\frac{0}{10,326} + \frac{11,451}{11,451} = 1$$