- 1. The expression  $\frac{24x^6y^3}{-6x^3y}$  is equivalent to
  - 1.  $-4x^2v^3$
  - 2.  $-4x^3y^3$
  - 3.  $-4x^9y^4$
  - 4.  $-4x^3v^2$
- 2. What is the product of  $3a^2b$  and  $-2ab^3$ ?
  - 1.  $a^2b^3$
  - 2.  $a^3b^4$
  - 3.  $-6a^2b^3$
  - 4.  $-6a^3b^4$
- 3. What is one-third of  $3^6$ ?
  - 1. 12 2. 32
  - 3. 35 4. 96
- The expression is  $(10w^3)^2$  equivalent to
- 1.  $2_W^5$  2.  $2_W^8$  3.  $20_W^5$  4.  $20_W^8$
- 5. Which expression is equivalent to  $3^3 \cdot 3^4$ ?
  - 1. 912
- 2. 97
- 3. 312
- 4. 37
- 6. Which expression represents  $\frac{27x^{18}y^5}{9x^6y}$  in simplest

## form?

- 1.  $3x^{12}y^4$
- 2.  $3x^3y^5$
- 3.  $18x^{12}y^4$
- 4.  $18x^3y^5$

- 7. What is the value of  $3^0 + 3^{-2}$ ?

  - 4. 6
- 8. What is the value of  $2^{-3}$ ?

  - 3. -6
  - 4. -8
- If  $x \neq 0$ , then  $\left(\frac{x^2}{1000}\right)^3$  is equivalent to
  - 1. 1000*x*
- 2.1000 + x
- 3. 1000
- 4. 0
- 10. The expression  $3^2 \cdot 3^3 \cdot 3^4$  is equivalent to
  - 1. 279
- 2. 2724
- 3. 39
- 4. 324

## Answer Key for CM Exp 1

Question 1: 4Question 2: 4Question 3: 3Question 4: 3Question 5: 4Question 6: 1Question 7: 3Question 8: 2Question 9: 1

Question 10: 3