

**DEV084 Basic Math I****Exponents/Square Roots Practice - 1****I. Write the following in exponential form:**

- 1)  $6 \times 6 \times 6 \times 6 =$  \_\_\_\_\_      2)  $5 \times 5 \times 5 =$  \_\_\_\_\_  
 3)  $7 \times 7 \times 4 \times 4 =$  \_\_\_\_\_      4)  $3 \times 2 \times 3 =$  \_\_\_\_\_  
 5)  $2 \times 2 \times 2 \times 2 \times 2 \times 2 =$  \_\_\_\_\_      6)  $3 \times 3 \times 3 \times 3 =$  \_\_\_\_\_  
 7)  $6 \times 6 \times 6 =$  \_\_\_\_\_      8)  $3 \times 2 \times 2 \times 2 \times 3 =$  \_\_\_\_\_  
 9)  $6 \times 7 \times 6 =$  \_\_\_\_\_      10)  $4 \times 4 \times 4 \times 4 \times 4 \times 4 =$  \_\_\_\_\_

**II. Expand and compute the value of the following:**

- 1)  $6^3 = 6 \times 6 \times 6 =$  \_\_\_\_\_      2)  $1^6 =$  \_\_\_\_\_ = \_\_\_\_\_  
 3)  $7^3 =$  \_\_\_\_\_ = \_\_\_\_\_      4)  $3^3 \times 10^2 =$  \_\_\_\_\_ = \_\_\_\_\_  
 5)  $2^6 =$  \_\_\_\_\_ = \_\_\_\_\_  
 6)  $3^7 = 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 =$  \_\_\_\_\_      7)  $6^2 =$  \_\_\_\_\_ = \_\_\_\_\_  
 8)  $4^3 =$  \_\_\_\_\_ = \_\_\_\_\_      9)  $1^6 =$  \_\_\_\_\_ = \_\_\_\_\_  
 10)  $2^4 \times 10^2 =$  \_\_\_\_\_ = \_\_\_\_\_

**III. Evaluate the following:**

- 1)  $\sqrt{100} =$  \_\_\_\_\_      2)  $\sqrt{49} =$  \_\_\_\_\_  
 3)  $\sqrt{144} =$  \_\_\_\_\_      4)  $\sqrt[3]{8} =$  \_\_\_\_\_  
 5)  $\sqrt{121} =$  \_\_\_\_\_      6)  $\sqrt{36} =$  \_\_\_\_\_  
 7)  $\sqrt{81} =$  \_\_\_\_\_      8)  $\sqrt{625} =$  \_\_\_\_\_  
 9)  $\sqrt{256} =$  \_\_\_\_\_

- I. 1)  $6^4$   
 2)  $5^3$   
 3)  $7^2 \times 4^2$   
 4)  $2 \times 3^2$   
 5)  $2^6$

- I. 6)  $3^4$   
 7)  $6^3$   
 8)  $2^3 \times 3^2$   
 9)  $6^2 \times 7$   
 10)  $4^6$

- II. 1) 216  
 2) 1  
 3) 343  
 4) 2700  
 5) 64

- II. 6) 2187  
 7) 36  
 8) 64  
 9) 1  
 10) 1600

- III. 1) 10  
 2) 7  
 3) 12  
 4) 2  
 5) 11

- III. 6) 6  
 7) 9  
 8) 25  
 9) 16