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Master 2.18

## **Extra Practice 2**

## Lesson 2.2: Powers of Ten and the Zero Exponent

1. Evaluate each power.

- a)  $4^0$
- **b**) 23<sup>0</sup>
- **c)**  $(-6)^0$

- **d)**  $1^0$
- **e**)  $-1^0$
- **f)**  $(-1)^0$

2. Write each number as a power of 10.

- **a)** 10 000
- **b)** 1 000 000
- c) one billion

- d) ten
- **e**) 1

3. Use powers of 10 to write each number.

a) 700 000 000 000

**b)** 7000

**c)** 77 077

**d)** 7 000 007

4. Write each number in standard form.

a)  $(8 \times 10^5)$ 

**b)** 
$$(9 \times 10^7) + (9 \times 10^6) + (5 \times 10^5)$$

c) 
$$(2 \times 10^3) + (2 \times 10^2) + (6 \times 10^0)$$

**d)** 
$$(5 \times 10^5) + (4 \times 10^8) + (8 \times 10^0) + (3 \times 10^4)$$

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**5.** Write these numbers in standard form, then order them from least to greatest. fifty-five hundred

50 500

$$(5 \times 10^6) + (5 \times 10^0)$$

five hundred thousand

5 × 10<sup>4</sup>

500 500

Highest \_\_\_\_\_ Lowest

**6.** a) Complete this table for a base of 10.

Exponent	Power	Standard Form
6	10 <sup>6</sup>	
5		
4		
3		
2		
1		
0		

**b)** Use patterns to describe why the power with an exponent of 0 is equal to 1.