

ALGEBRA

Lesson 1.4

Name _____

Powers of 10 and Exponents

COMMON CORE STANDARD CC.5.NBT.2

Understand the place value system.

Write in exponent form and word form.

1. $10 \times 10 \times 10$

2. 10×10

3. $10 \times 10 \times 10 \times 10$

exponent form: 10^3

exponent form: _____

exponent form: _____

word form: **the**

word form: _____

word form: _____

third power

of ten

Find the value.

4. 10^3

5. 4×10^2

6. 9×10^4

7. 10^1

8. 10^5

9. 5×10^1

10. 7×10^3

11. 8×10^0

Problem Solving



12. The moon is about 240,000 miles from Earth. What is this distance written as a whole number multiplied by a power of ten?

13. The sun is about 93×10^6 miles from Earth. What is this distance written as a whole number?

Lesson Check (CC.5.NBT.2)

1. Which of the following is NOT equivalent to "3 times the sixth power of 10?"
 - (A) 3×10^6
 - (B) 3,000,000
 - (C) $3 \times 10 \times 6$
 - (D) $3 \times 1,000,000$
2. Gary mails 10^3 flyers to clients in one week. How many flyers does Gary mail?
 - (A) 10
 - (B) 100
 - (C) 1,000
 - (D) 10,000

Spiral Review (Reviews CC.4.NBT.5, CC.4.NBT.6)

3. Harley is loading 625 bags of cement onto small pallets. Each pallet holds 5 bags. How many pallets will Harley need? (Grade 4)
 - (A) 125
 - (B) 620
 - (C) 630
 - (D) 3,125
4. Marylou buys a package of 500 jewels to decorate 4 different pairs of jeans. She uses the same number of jewels on each pair of jeans. How many jewels will she use for each pair of jeans? (Grade 4)
 - (A) 100
 - (B) 125
 - (C) 200
 - (D) 2,000
5. Manny buys 4 boxes of straws for his restaurant. There are 500 straws in each box. How many straws does he buy? (Grade 4)
 - (A) 20,000
 - (B) 2,000
 - (C) 200
 - (D) 125
6. Cammie goes to the gym to exercise 4 times per week. Altogether, how many times does she go to the gym in 10 weeks? (Grade 4)
 - (A) 4
 - (B) 10
 - (C) 20
 - (D) 40