

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