

* Completed together in class Monday 12/1

Name _____ Date _____ Class _____

LESSON
1-3 Exponents

Practice A

base \rightarrow 5 \leftarrow exponent 4

Name the base and the exponent for each of the following.

1. 7^2

base 7

exponent 2

2. 5^4

base 5

exponent 4

3. 6^8

base 6

exponent 8

4. 5^9

base 5

exponent 9

5. 10^7

base 10

exponent 7

6. 4^3

base 4

exponent 3

Write using exponents.

7. $4 \cdot 4$

4^2

8. $2 \cdot 2 \cdot 2$

2^3

9. $10 \cdot 10$

10^2

10. $5 \cdot 5 \cdot 5 \cdot 5$

5^4

11. $3 \cdot 3 \cdot 3 \cdot 3$

3^4

12. $8 \cdot 8 \cdot 8 \cdot 8 \cdot 8$

8^5

Write as repeated multiplication.

13. 6^2

$6 \cdot 6$

14. 5^3

$5 \cdot 5 \cdot 5$

15. 10^3

$10 \cdot 10 \cdot 10$

16. 9^4

$9 \cdot 9 \cdot 9 \cdot 9$

17. 2^5

$2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$

18. 3^6

$3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3$

19. How many different ways can you use the digits 3 and 5 to write expressions in exponential form? What are the expressions?

3^5 OR 5^3

20. What do the following two expressions have in common?
"three to the second power" and "three squared"

They both mean $3 \cdot 3$ or 3^2