

Name: \_\_\_\_\_

Period: \_\_\_\_\_

Review For Unit 1 Quiz

Write each expression using exponents

1.  $(-5)(-5)(-5)(-5)$

2.  $3 \cdot 3 \cdot p \cdot p \cdot p$

3.  $m \cdot m \cdot m \cdot m \cdot m$

Evaluate each expression.

4.  $(-9)^4$

7.  $(-4)^2$

5.  $\left(\frac{1}{3}\right)^4$

8.  $(-7n)^3$

6.  $-3^2$

9.  $-4^0$

10. Complete the table at the right by completing the pattern.

Power	Value
$2^6$	64
$2^5$	32
$2^4$	16
$2^3$	8
$2^2$	4
$2^1$	2

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Write an equivalent expression in simplest form to eliminate the negative exponent.

11.  $3^{-2}$

13.  $8^{-1}$

12.  $b^{-6}$

14.  $\frac{7}{d^{-9}}$

Evaluate the expression and circle the correct answer.

15.  $(4)^{-2}$       a) 16      b) -16      c)  $\frac{1}{16}$       d)  $-\frac{1}{16}$

16.  $(-2)^{-3}$       a) 8      b) -8      c)  $\frac{1}{8}$       d)  $-\frac{1}{8}$

17.  $-5^{-2}$       a) 25      b) -25      c)  $\frac{1}{25}$       d)  $-\frac{1}{25}$

18.  $-(-3)^3$       a) 27      b) -27      c)  $\frac{1}{27}$       d)  $-\frac{1}{27}$

Simplify each expression. Use only positive exponents.

19.  $2^5 \cdot 2^3$

23.  $\frac{2^7}{2^5}$

20.  $3^0 \cdot 3^{-4}$

24.  $\frac{10^2}{10^{-5}}$

21.  $5^{-7} \cdot 5^2$

25.  $(-4y)^4$

22.  $\frac{p^{24}}{p^3 \cdot p^9}$

26.  $\frac{4^{-2}}{4^{-4}}$