GRADE 6 MATH · CLASSWORK

Understand and Represent Exponents

SCORE / 25

01 Part A · Practice

An exponent tells how many times the base is used as a factor: $5^3 = 5 \cdot 5 \cdot 5$.

EXAMPLE

Write $4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$ **using an exponent.**

1. The base is the repeated factor: 4.
2. Count the factors: 5.
3. Write 4^5 ("4 to the fifth power").

1 ●○○ Write using an exponent. $6 \cdot 6 \cdot 6 \cdot 6$

2 ●○○ Write 10^4 as repeated multiplication.

3 ●○○ In 12^2, name the base and the exponent. What does the expression mean?

4 ●○○ Write "**9 cubed**" using an exponent.

5 ●○○ In 3^6, name the base and the exponent. What does the expression mean?

6 ●○○ Write "**6 to the fourth power**" using an exponent.

7 ●○○ Write using an exponent. $6 \cdot 6 \cdot 6 \cdot 6 \cdot 6$

8 ●○○ Write 12^6 as repeated multiplication.

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Preview - the full worksheet and its answer key are at primeworksheet.com