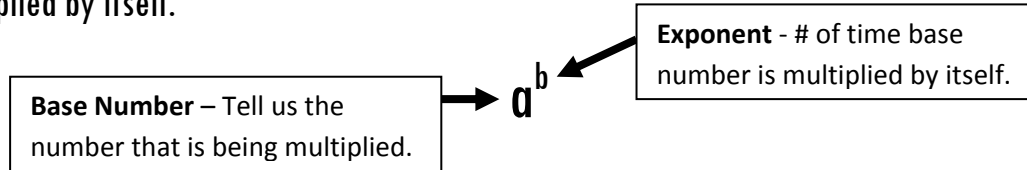


Converting Between Expanded Form and Exponents Guided Lesson Explanation

Method for solving 1 and 2:

Exponential form tells us a base number and the exponent tells us how many times it is multiplied by itself.



1) Base Number – 8 will be multiplied. 8^5 Exponent – Base (8) multiplied by itself 5 times.

Putting it all together: $8 \times 8 \times 8 \times 8 \times 8$

2) Base Number – 4 will be multiplied. 4^6 Exponent – Base (4) multiplied by itself 6 times.

Putting it all together: $4 \times 4 \times 4 \times 4 \times 4 \times 4$

Method for solving 3 and 4:

Expanded can be converted to exponential form by identifying the base number (number being multiplied by itself) and the number of times the base number is multiplied by itself.

3) $6 \times 6 \times 6 \times 6$ Base number = 6 Exponent = 4 (Multiplied by itself 4 times)

Putting it all together: 6^4

4) $9 \times 9 \times 9$ Base number = 9 Exponent = 3 (Multiplied by itself 3 times)

Putting it all together: 9^3

