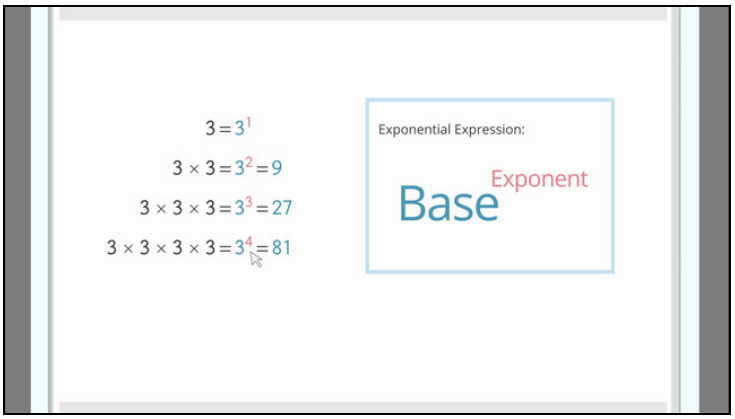
Worksheets to print out from sofatutor.com

Writing and Evaluating Expressions with Exponents



1. **Label the base as well as the exponent.**
2. Show how to write the given situation as an exonential expression.
3. Express the following problem as a mathematical expression.
4. Explain how to transform the word problems.
5. Find the right exponential expression.
6. Determine the corresponding expression.

\+ with many hints, answer keys, and solution approaches for all tasks

Label the base as well as the exponent.

Fill in the blanks.

1 $3^2 = 9$

Here _ 1 is the base and _ 2 is the exponent.

2 $3^3 = 27$

Here _ 3 is the base and _ 4 is the exponent.

3 3^x

Here _ 5 is the base and _ 6 is the exponent.

4 5^3

Here _ 7 is the base and _ 8 is the exponent.

Our hints for the tasks

1 from 6

Label the base as well as the exponent.

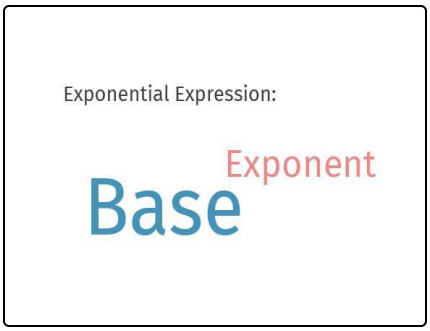
1. Hint

The exponent is the number of times you multiply the base by itself.

2. Hint

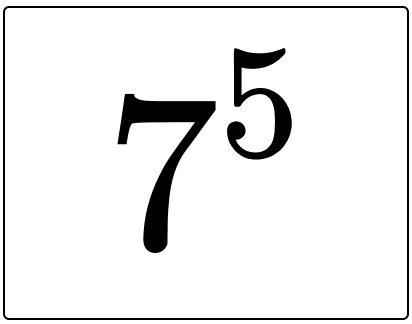
In general a power is given by a^n, where a stands is the base of the power.

3. Hint



Keep the meaning of the corresponding positions in mind.

4. Hint



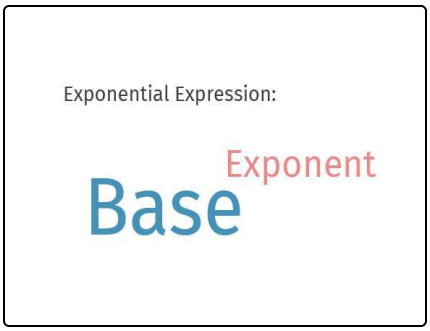
In the example beside, 7 is the base while 5 is the exponent.

Solutions and solution approaches for the tasks

1 from 6

Label the base as well as the exponent.

Answer key: 1: 3 // 2: 2 // 3: 3 // 4: 3 // 5: 3 // 6: x // 7: 5 // 8: 3



In general a power is given by a^n, where a is called the base and n is called the exponent.

You can read it as a **raised to the power of** n.