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| **Word** | **Mathematics Context Definition** | **Sentence** |
| Power | The power of a number shows you how many times to use the number in a multiplication.  It is written as a small number to the right and above the base number.  In this example: 82 = 8 × 8 = 64  (Another name for power is index or exponent) | To divide **powers** that have the same **base**, you subtract the **exponents**. |
| Base | 1. The number that is going to be raised to a power.  Example: in 82, 8 is the base  2. How many numbers used in a number system  The decimal number system that we use every day has 10 digits {0,1,2,3,4,5,6,7,8,9} and so it is Base-10. |
| Exponent | The exponent of a number shows you how many times the number is to be used in a multiplication.  It is written as a small number to the right and above the base number.  In this example: 82 = 8 × 8 = 64  (Another name for exponent is index or power) |
| Quotient | The answer after dividing one number by another.  dividend ÷ divisor = Quotient  Example: 15 ÷ 5 = 3. 3 is the quotient | To find the **power** of a **quotient**, find the power of the numerator and the power of the denominator and divide. |