**Powers**

**23  The number formed with the base and exponent together is**

**called a power.**

**2 is the base**

**3 is the exponent**

**23 means 2 x 2 x 2**

***(the exponent says how many times the base is multiplied by itself)***

**A square number is can be expressed as a base with an exponent of two.  e.g. 25 is a square number   52**

**A cube number can be expressed as a base with an exponent of three.  e.g. 27 is a cube number 33**

**There are three forms that you need to express numbers in:**

|  |  |  |
| --- | --- | --- |
| **Exponential Form (Powers)** | **Expanded Form** | **Standard Form** |
| **25** | **2 x 2 x 2 x 2 x 2** | **32** |
|  | **-4 x -4 x -4** |  |
|  |  | **16** |
| **-32** |  |  |
| **(-3)2** |  |  |
| **(-32)** |  |  |
| **(2p)3** |  |  |
|  |  |  |
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