

| Power | Estimate | Quantity |
|-------|----------|----------|
| 9 | | |
| 8 | | |
| 7 | | |
| 6 | | |
| 5 | | |
| 4 | | |
| 3 | | |
| 2 | | |
| 1 | | |
| 0 | | |
| -1 | | |
| -2 | | |
| -3 | | |
| -4 | | |
| -5 | | |
| -6 | | |
| -7 | | |
| -8 | | |
| -9 | | |
| -10 | | |

| Power | Estimate | Quantity |
|-------|----------|---|
| 9 | 1.4e9 | Diameter of the sun |
| 8 | 400e6 | Distance of the moon from Earth |
| 7 | 20e6 | Altitude of GPS satellites |
| 6 | 6.3e6 | Radius of the Earth |
| 5 | 300e3 | Distance light travels in 1ms in vacuum |
| 4 | 60e3 | Thickness of ozone layer |
| 3 | 1.609e3 | 1 mile |
| 2 | 112 | Height of the tallest redwood tree |
| 1 | 30 | Length of a blue whale |
| 0 | 6 | Height of an adult giraffe |
| -1 | 254e-3 | Diameter of a football |
| -2 | 20e-3 | Length of a woodlouse |
| -3 | 1.5e-3 | Diameter of typical pin head |
| -4 | 145e-6 | Diameter of a human ovum |
| -5 | 20e-6 | Diameter of a grain of fine sand |
| -6 | 2e-6 | Length of E. Coli |
| -7 | 100e-9 | Size of HIV virus |
| -8 | 20e-9 | Diameter of ribosome |
| -9 | 2.5e-9 | Thickness of a typical cell membrane |
| -10 | 3.4e-10 | Distance between base pairs in a DNA |

| Power | Estimate | Quantity |
|-------|----------|---------------------------------------|
| 9 | 1.5e9 | 1% of distance from Earth to Sun |
| 8 | 130e6 | Diameter of Jupiter |
| 7 | 40e6 | Distance around the Equator |
| 6 | 6.4e6 | Length of River Amazon |
| 5 | 300e3 | Height of orbit of space shuttle |
| 4 | 42e3 | Total length of a marathon |
| 3 | 5e3 | Largest depth of Antarctic ice cap |
| 2 | 158 | Height of Blackpool Tower |
| 1 | 30 | Height of a tall oak tree |
| 0 | 3 | Typical wavelength of FM radio waves |
| -1 | 500e-3 | Typical length of human femur |
| -2 | 25e-3 | 1 inch |
| -3 | 2e-3 | Length of a flea |
| -4 | 200e-6 | Length of a dust mite |
| -5 | 10e-6 | Smallest size resolvable by human eye |
| -6 | 8e-6 | Diameter of human red blood cells |
| -7 | 200e-9 | Diameter of smallest bacterium |
| -8 | 20e-9 | Size of smallest virus |
| -9 | 2.5e-9 | Diameter of a DNA helix |
| -10 | 2.8e-10 | Diameter of a water molecule |