Too big…too small…
Just Right!

Show work on notebook paper!

Write in scientific notation:

**1)** 945000

**2)** 12

**3)** 0.156000

**4)** 0.00000000853

Write in standard notation:

**5)** 1.98 x 104

**6)** 6.02 x 1023

**7)** 4.5 x 10-6

**8)** 2.71 x 10-1

What is wrong with the following problems? Explain in full sentences!

**9)** 0.54 x 105

**10)** 97 x 10-4

**11)** The diameter of an particular atom
 is 1.3 x 108 cm.

Solve the following word problems:

**12)** In Australia, the people use
 approximately 2,240,000,000
 pounds of bread in a year. How
 can we write this number in
 scientific notation?

**13)** If a satellite travels 62,000,000
 miles from Earth, how can we
 write it in scientific notation?

**14)** 0.000065 is the wave length of
 yellow light. Can you express the
 measurement using scientific
 notation?

**15)** A proton weighs 1.673 x 10-27 kg,
 a neutron weighs 1.75 x 10-27 kg,
 and an electron weighs
 9.11 x 10 -31 kg. Write the heaviest

 particle’s mass in standard

 notation.

**16)** A flea is 8 x 10-3 m long. It can
 jump 3.5 ×102 times its own
 length. How far can it jump? Write
 your answer in standard notation.
**17)** The bedroom of a house is 1,200
 cubic meters. We know that there
 are 3.4 x 109 particles of dust per
 cubic meter. Write how many
 particles of dust are present in the
 bedroom of the house.

**18)** Explain the title of this worksheet.
 How does it relate topic of the
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