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) 1.98×10^{4}
6) 6.02×10^{23}
7) 4.5×10^{-6}
8) 2.71×10^{-1}

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

9) 0.54×10^{5}
10) 97×10^{-4}
11) The diameter of an particular atom is 1.3×10^{8} 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 1.673×10^{-27} kg, a neutron weighs 1.75×10^{-27} kg, and an electron weighs 9.11×10^{-31} kg. Write the heaviest particle's mass in standard notation.
16) A flea is 8×10^{-3} m long. It can jump 3.5×10^{2} 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 3.4×10^{9} 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 practice problems?

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) 1.98×10^{4}
6) 6.02×10^{23}
7) 4.5×10^{-6}
8) 2.71×10^{-1}

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

9) 0.54×10^{5}
10) 97×10^{-4}
11) The diameter of an particular atom is 1.3×10^{8} 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 1.673×10^{-27} kg, a neutron weighs 1.75×10^{-27} kg, and an electron weighs 9.11×10^{-31} kg. Write the heaviest particle's mass in standard notation.
16) A flea is 8×10^{-3} m long. It can jump 3.5×10^{2} 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 3.4×10^{9} 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 practice problems?

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) 1.98×10^{4}
6) 6.02×10^{23}
7) 4.5×10^{-6}
8) 2.71×10^{-1}

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

9) 0.54×10^{5}
10) 97×10^{-4}
11) The diameter of an particular atom is 1.3×10^{8} 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 1.673×10^{-27} kg, a neutron weighs 1.75×10^{-27} kg, and an electron weighs 9.11×10^{-31} kg. Write the heaviest particle's mass in standard notation.
16) A flea is 8×10^{-3} m long. It can jump 3.5×10^{2} 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 3.4×10^{9} 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 practice problems?