

ESTIMATE the answer to each of the following questions giving your answer as a single digit times a power of ten.

13. How many times bigger is the distance from Earth to the sun of 9.3×10^6 miles than the furthest distance from Earth to the moon of 3×10^5 miles?
14. The temperature halfway to the Sun from Mercury is approximately $1,800^\circ C$ and scientists theorize that it may be up to 26,000 times hotter at the center of the Sun. Approximately how hot is it at the center of the Sun?
15. Each shrimp weighs approximately 0.000 27 g and a shrimp company can bring in over 3,100,000,000 shrimp per year. Approximately how much would that many shrimp weigh?
16. The Earth has a mass of about 1×10^{25} kg. Neptune has a mass of 1.8×10^{27} kg. How many times bigger is Neptune than Earth?
17. A country has an area of approximately 8,400,000,000 square miles and has approximately 210,000 people. How much area is this per person?
18. A blue whale can eat 300,000,000 krill in a day. All of that krill weighs approximately 6,300,000,000 mg. About how much does each krill weigh?
19. The US spends on average 10,200 dollars on each student per year. There are about 77,000,000 students in the United States. How about much money total is spent on students each year?
20. McDonald's has about 210,000 managers and each makes on average 39,000 dollars per year. How much money does McDonald's spend on managers each year?