

Comparing Numbers in Scientific Notation Homework

- 1) Drake sold 6.8×10^9 albums last year and Meek Mill sold 2.2×10^7 albums this year. The total amount of albums Drake sold this year is about how many times the total amount of albums Meek Mill sold?

- 2) The mass of Earth's moon is about 7×10^{22} kilograms. The mass of Jupiter is about 1.89×10^{27} kilograms. The mass of Jupiter is about how many times the mass of Earth's moon?

Show your work.

Solution: _____

- 3) The area of the Pacific Ocean is about 1.56×10^8 square kilometers. The area of the East China Sea is about 1.2×10^6 square kilometers. Tell whether each statement is *True* or *False*.

- a. The area of the Pacific Ocean is about 15,600,000 square kilometers. ☐ True ☐ False
- b. The area of the Pacific Ocean is about 130 times the area of the East China Sea. ☐ True ☐ False
- c. The area of the East China Sea is about 130 times the area of the Pacific Ocean. ☐ True ☐ False
- d. The area of the East China Sea is about 1,200,000 square kilometers. ☐ True ☐ False

How do you compare numbers in scientific notation?



- 4) There are about 5×10^{16} monkeys in the world and about 5×10^{30} birds in the world. Are there more monkeys or birds in the world? How do you know?

How many times more birds are there than monkeys

- 5) The total area of Kansas that is covered by water is about 5×10^2 square miles. The total area of Alaska that is covered by water is about 9.5×10^4 square miles. The total water area of Alaska is about how many times the total water area of Kansas?

Show your work.