Chapter 1 Real Numbers

Lesson 1-6 Scientific Notation Page 55



The areas of the world's oceans are listed in the table. Order the oceans according to their area from least to greatest.

World's Oceans	
0cean	Area (mi²)
Atlantic	2.96×10^{7}
Arctic	5.43×10^{6}
Indian	2.65×10^{7}
Pacific	6 × 10 ⁷
Southern	7.85×10^{6}

Rewrite each of the areas to the same power of 10. Then compare the areas.

Ocean	Area (mi ²)
Atlantic	29.6×10^6
Arctic	5.43×10^6
Indian	26.5×10^6
Pacific	60.0×10^6
Southern	7.85×10^6

Since 5.43 < 7.85 < 26.5 < 29.6 < 60.0, the oceans in order from least to greatest area are Arctic, Southern, Indian, Atlantic, and Pacific.



Fill in the \bigcirc with <, >, or = to make $6.25 \times 10^3 \bigcirc 6.3 \times 10^3$ a true statement.

Rewrite each of the numbers in standard form to compare them.

 $6.25 \times 10^3 = 6,250$ Move the decimal point 3 places to the right. $6.3 \times 10^3 = 6,300$ Move the decimal point 3 places to the right.

Since 6, 250 < 6, 300, $6.25 \times 10^3 < 6.3 \times 10^3$.