## Chapter 1 Real Numbers

Lesson 1-6 Scientific Notation
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17 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 |  |
| :--- | ---: |
| Ocean | Area ( $\mathbf{m i}^{\mathbf{2}}$ ) |
| Atlantic | $2.96 \times 10^{7}$ |
| Arctic | $5.43 \times 10^{6}$ |
| Indian | $2.65 \times 10^{7}$ |
| Pacific | $6 \times 10^{7}$ |
| Southem | $7.85 \times 10^{6}$ |

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

| Ocean | Area $\left(\mathbf{m i}^{\mathbf{2}}\right)$ |
| :--- | :--- |
| Atlantic | $29.6 \times 10^{6}$ |
| Arctic | $5.43 \times 10^{6}$ |
| Indian | $26.5 \times 10^{6}$ |
| Pacific | $60.0 \times 10^{6}$ |
| Southern | $7.85 \times 10^{6}$ |

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.

## 1 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.
$6.25 \times 10^{3}=6,250 \quad$ Move the decimal point 3 places to the right.
$6.3 \times 10^{3}=6,300 \quad$ Move the decimal point 3 places to the right.
Since $6,250<6,300,6.25 \times 10^{3}<6.3 \times 10^{3}$.

