10.6 Writing Scientific Notation p. 444

RPJ p. 224 Which was easier to compare? standard form or scientific notation ?
just needed to compare exponents

Large Numbers to Scientific Notation:

$1,650,000,000 = 1.6 \times 10^9$

between 1 and < 10

how many times did you move the decimal to the left

$50,000 = 5 \times 10^4$

$25,000,000 = 2.5 \times 10^7$

$683 = 6.83 \times 10^2$

Small Numbers to Scientific Notation:

$0.000000268 = 2.68 \times 10^{-6}$

between 1 and < 10

how many times did you move the decimal to the right

$0.005 = 5 \times 10^{-3}$

$0.00000033 = 3.3 \times 10^{-7}$

$0.000506 = 5.06 \times 10^{-4}$

$* \quad 6 = 6 \times 10^0$

Order from least to greatest:

① 6.8×10^4 ② 2.04×10^5 ③ 5.65×10^4

② ③ ①

5.65×10^4 6.8×10^4 2.04×10^5

② 5.42×10^8 6.55×10^7 2.51×10^8

③ ① ②

6.55×10^7 2.51×10^8 5.42×10^8