

**HOMEWORK**

**1** Which of the following expressions is equivalent to 4,325,000,000?

- A**  $4.325 \times 10^{-9}$                       **C**  $4.325 \times 10^6$   
**B**  $4.325 \times 10^{-6}$                       **D**  $4.325 \times 10^9$

Carson chose **A** as the correct answer. How did he get that answer?

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\_\_\_\_\_

Will the exponent be positive or negative?



**5** Write 0.0000003105 in scientific notation. Explain how you found your answer.

**Show your work.**

*Solution:* \_\_\_\_\_

Is the number between 0 and 1 or is it greater than 1? What does that tell you about the number in scientific notation?



**1** Which of the following expressions is equivalent to 5,710,900?

- A**  $5.7109 \times 10^{-6}$   
**B**  $5.7109 \times 10^2$   
**C**  $5.7109 \times 10^3$   
**D**  $5.7109 \times 10^6$

Write the following numbers in order from **least** to **greatest**.

$$5 \times 10^{-6}$$

$$-9 \times 10^{-3}$$

$$-0.0000002$$

$$0.00007$$

Least  $\longrightarrow$  Greatest

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Determine if each equation is true.

Choose *True* or *False* for each equation.

a.  $4.25 \times 10^6 = 425,000$   True  False

b.  $6.38 \times 10^9 = 638,000,000,000$   True  False

c.  $5.11 \times 10^{-2} = 511$   True  False

d.  $2.79 \times 10^{-4} = 0.000279$   True  False