Name

The speed of light is 3×10^8 meters/second. If the sun is 1.5×10^{11} meters from earth, how many seconds does it take light to reach the earth. Express your answer in scientific notation. $(3 \times 10^8)(1.5 \times 10^8)$

Computing with Scientific Notation

Write your answer in scientific notation.

Hint: Use your properties

$$(3 \times 10^{5})(2 \times 10^{9})$$

 $(3 \times 2)(10^{5} \times 10^{9})$
 (0×10^{14})

$$(2 \times 10^6)(1.5 \times 10^{12})$$

$$(4 \times 10^8)(2 \times 10^{-4})$$

$$(5 \times 10^{-7})(1.7 \times 10^{-8})$$

Computing with Scientific Notation

H.5 X M19

Write your answer in scientific notation.

Hint: Use your properties

 $(3.8 \times 10^{3})(4.1 \times 10^{4})$ $(3.8 \times 4.1)(10^{3} \times 10^{4})$ 15.58×10^{7} 1.558×10^{8}

$$(2.5 \times 10^{4})(5.8 \times 10^{2})$$

 $(2.5 \times 5.8)(10^{4} \times 10^{2})$
 14.5×10^{6}
 1.45×10^{6}

$$(4.9 \times 10^{-6})(3.2 \times 10^{8})$$
 $(5.68 \cdot 6^{3})$

1257.34 × 10⁴ 1.25734 × 10⁷

Astronomy:

The sun burns about 4.4×10^6 tons of hydrogen per second. How much hydrogen does the Sun burn in one year? (Hint: one year = 3.16×10^7 seconds)