Algebra 1   7.4
Express numbers in scientific notation*
Find products and quotients of numbers in scientific notation
scientific notation
exponent
standard form

activity: triangle puzzles
           whiteboards

$$(\quad) \times 10^{\bigcirc}$$

$$31.486000 \;{}^{-7}_{++}$$

$$3.1486 \times 10^{7}$$

$$2.3 \times 10^{4}$$

$$23000$$

Express each number in scientific notation

1A. 68,700,000,000

1B. 0.0000725

$$(\quad) \times 10^{(\quad)}$$

Express each number in standard form

2A. 3.201×10^6

2B. 9.03×10^{-5}

Evaluate each quotient. Express the results in both scientific notation and standard form.

4A. $\dfrac{2.3958 \times 10^3}{1.98 \times 10^8}$ $3 - 8$

$\downarrow 1.21 \times 10^{-5} \uparrow$

$.0000121$

4B. $\dfrac{1.305 \times 10^3}{1.45 \times 10^{-4}}$ $3 + 4$

0.9×10^7 $+1$ (-1)

$\uparrow 9 \times 10^6 \downarrow$

$9 0 0 0 , 0 0 0$

Triangle puzzles

$$\sqrt{37} \qquad (37)^{\frac{1}{2}}$$

$$3\sqrt{(x)} \qquad 3(x)^{\frac{1}{2}}$$

$$7xy^{\frac{1}{3}} \qquad 7x\sqrt[3]{y}$$