Scientific Notation   Mul/Div: ES1

Simplify and express in scientific notation:

Example 1	Example 2
$(6 \times 10^3)(2 \times 10^5)$	$\dfrac{18 \times 10^6}{4 \times 10^4} = \dfrac{18}{4} \times 10^6 \times 10^{-4}$
$(6 \times 10^3)(2 \times 10^5) = 12 \times 10^3 \times 10^5$	$= \mathbf{4.5 \times 10^2}$
$\qquad\qquad\qquad = 12 \times 10^8$	
$\qquad\qquad\qquad = \mathbf{1.2 \times 10^9}$	

Simplify each problem and express the answer in scientific notation.

1) $(7 \times 10^8)(9 \times 10^6)$

Answer : _____

2) $\dfrac{3 \times 10^4}{8 \times 10}$

Answer : _____

3) $\dfrac{4 \times 10^9}{5 \times 10^7}$

Answer : _____

4) $(2 \times 10^3)(3 \times 10^4)$

Answer : _____

5) $(3 \times 10^7)(9 \times 10^6)$

Answer : _____

6) $\dfrac{4 \times 10^5}{16 \times 10^2}$

Answer : _____

7) $\dfrac{9 \times 10^5}{10 \times 10^3}$

Answer : _____

8) $(11 \times 10^4)(7 \times 10^2)$

Answer : _____