### Scientific Notation

Simplify and express in scientific notation:

**Example 1**
\[
\frac{2.5 \times 10^6}{0.5 \times 10^3} = \frac{2.5}{0.5} \times 10^6 \times 10^{-3} = 5 \times 10^3
\]

**Example 2**
\[
(3.5 \times 10^4)(0.4 \times 10^{-7}) = 1.4 \times 10^4 \times 10^{-7} = 1.4 \times 10^{-3}
\]

### Problems

1. \[
\frac{8.14 \times 10^2}{2 \times 10^4}
\]

   Answer: 

2. \[
\frac{0.24 \times 10^5}{0.5 \times 10^{-7}}
\]

   Answer: 

3. \[
(3.7 \times 10^{-2})(6.4 \times 10^5)
\]

   Answer: 

4. \[
\frac{2.78 \times 10^{-3}}{0.8 \times 10^{-2}}
\]

   Answer: 

5. \[
(0.2 \times 10)(7.2 \times 10^5)
\]

   Answer: 


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Example 1
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\frac{2.5 \times 10^6}{0.5 \times 10^3} = \frac{2.5}{0.5} \times 10^6 \times 10^{-3} = 5 \times 10^3
\]

Example 2
\[
(3.5 \times 10^4) (0.4 \times 10^{-7}) = 1.4 \times 10^4 \times 10^{-7} = 1.4 \times 10^{-3}
\]

1) \(\frac{8.14 \times 10^2}{2 \times 10^4}\)

Answer: ________________

2) \(\frac{0.24 \times 10^5}{0.5 \times 10^{-7}}\)

Answer: ________________

3) \((3.7 \times 10^{-2}) (6.4 \times 10^3)\)

Answer: ________________

4) \(2.78 \times 10^{-3}\)

Answer: ________________

5) \(0.8 \times 10^{-2}\)

Answer: ________________

6) \((0.2 \times 10) (7.2 \times 10^5)\)

Answer: ________________

7) \(3.475 \times 10^{-1}\)

Answer: ________________

8) \(1.44 \times 10^6\)

Answer: ________________

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