STANDARD FORM

Multiplication & Division — Complete Practice Set

Coverage Check

Questions 6, 7 and 8 sent for review were already present in the original set — no new content there. Checking the full topic: addition, subtraction and division (including "without calculator") were all well covered, but multiplication was tested only once, with no negative-power or no-calculator version, and there was no combined multiply-then-divide question. Questions 9–12 below close that gap.

Questions

Solve each question below and express your answer in standard form. Where stated, do not use a calculator or mathematical tables.

1. Evaluate: $(5.6 \times 10^{5}) + (3.2 \times 10^{4})$

2. Evaluate: $(7.4 \times 10^{-2}) - (2.9 \times 10^{-3})$

3. Evaluate: $(6 \times 10^{3}) \times (4 \times 10^{5})$

4. Evaluate: $(9 \times 10^{7}) \div (3 \times 10^{2})$

5. The population of a town is 2.4×10^{5} and another town is 3.6×10^{4}. Find the total population of the two towns in standard form.

6. Simplify: $(9.6 \times 10^{8}) \div (0.24 \times 10^{5})$, and express your answer in the form $P \times 10^{m}$ where $1 < P < 10$ and m is an integer.

7. Evaluate and express your answer in standard form: $(4.56 \times 3.6) \div 0.12$

8. Without using mathematical tables or calculators, evaluate $(0.09 \times 1.21) \div (3.3 \times 0.00025)$, leaving the answer in standard form.

9. Evaluate: $(2.5 \times 10^{-3}) \times (4 \times 10^{6})$, leaving your answer in standard form. **[NEW]**

10. Without using a calculator or mathematical tables, evaluate 0.025×480, leaving your answer in standard form. **[NEW]**

11. Evaluate: $(6 \times 10^{-2}) \div (1.5 \times 10^{-5})$, leaving your answer in standard form. **[NEW]**

12. Without using a calculator or mathematical tables, evaluate $(3 \times 10^{4}) \times (5 \times 10^{-2}) \div (2.5 \times 10^{2})$, leaving your answer in standard form. **[NEW]**

Answers

1. 6.24×10^{5}

2. 7.11×10^{-2}

3. 2.4×10^{9}

4. 3.0×10^{5}

5. 2.76×10^{5}

6. 4.0×10^{4}

7. 1.368×10^{2}

8. 1.32×10^{2}

9. 1.0×10^{4}

10. 1.2×10^{1}

11. 4.0×10^{3}

12. 6.0×10^{0}