



Solve each problem. Answer as a decimal (if necessary).

1)  $6 \times 10^6$  is \_\_\_\_\_  $\times$  the value of  $5 \times 10^9$

2)  $7 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^9$

3)  $4 \times 10^3$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^6$

4)  $8 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^3$

5)  $4 \times 10^9$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^8$

6)  $6 \times 10^2$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^4$

7)  $5 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^9$

8)  $9 \times 10^6$  is \_\_\_\_\_  $\times$  the value of  $2 \times 10^4$

9)  $8 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $4 \times 10^5$

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_



Solve each problem. Answer as a decimal (if necessary).

1)  $6 \times 10^6$  is \_\_\_\_\_  $\times$  the value of  $5 \times 10^9$

$$\frac{6 \times 10^6}{5 \times 10^9} = \frac{6}{5} \times \frac{10^6}{10^9} = \frac{6}{5} \times 10^{-3} = 1.2 \times 10^{-3}$$

2)  $7 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^9$

$$\frac{7 \times 10^5}{9 \times 10^9} = \frac{7}{9} \times \frac{10^5}{10^9} = \frac{7}{9} \times 10^{-4} = 0.778 \times 10^{-4}$$

3)  $4 \times 10^3$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^6$

$$\frac{4 \times 10^3}{9 \times 10^6} = \frac{4}{9} \times \frac{10^3}{10^6} = \frac{4}{9} \times 10^{-3} = 0.444 \times 10^{-3}$$

4)  $8 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^3$

$$\frac{8 \times 10^8}{7 \times 10^3} = \frac{8}{7} \times \frac{10^8}{10^3} = \frac{8}{7} \times 10^5 = 1.143 \times 10^5$$

5)  $4 \times 10^9$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^8$

$$\frac{4 \times 10^9}{7 \times 10^8} = \frac{4}{7} \times \frac{10^9}{10^8} = \frac{4}{7} \times 10^1 = 0.571 \times 10^1$$

6)  $6 \times 10^2$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^4$

$$\frac{6 \times 10^2}{7 \times 10^4} = \frac{6}{7} \times \frac{10^2}{10^4} = \frac{6}{7} \times 10^{-2} = 0.857 \times 10^{-2}$$

7)  $5 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^9$

$$\frac{5 \times 10^8}{7 \times 10^9} = \frac{5}{7} \times \frac{10^8}{10^9} = \frac{5}{7} \times 10^{-1} = 0.714 \times 10^{-1}$$

8)  $9 \times 10^6$  is \_\_\_\_\_  $\times$  the value of  $2 \times 10^4$

$$\frac{9 \times 10^6}{2 \times 10^4} = \frac{9}{2} \times \frac{10^6}{10^4} = \frac{9}{2} \times 10^2 = 4.5 \times 10^2$$

9)  $8 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $4 \times 10^5$

$$\frac{8 \times 10^8}{4 \times 10^5} = \frac{8}{4} \times \frac{10^8}{10^5} = \frac{2}{1} \times 10^3 = 2 \times 10^3$$

**Answers**

1. **0.0012**

2. **0.0000778**

3. **0.000444**

4. **114,300**

5. **5.71**

6. **0.00857**

7. **0.0714**

8. **450**

9. **2,000**