



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

Answers

1)  $2 \times 10^3$  is \_\_\_\_\_  $\times$  the value of  $8 \times 10^9$

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

2)  $2 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^9$

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

3)  $7 \times 10^6$  is \_\_\_\_\_  $\times$  the value of  $5 \times 10^3$

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

4)  $5 \times 10^2$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^9$

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

5)  $6 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $2 \times 10^5$

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

6)  $6 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $2 \times 10^9$

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

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

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

8)  $6 \times 10^2$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^7$

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

9)  $5 \times 10^3$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^7$

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



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

1)  $2 \times 10^3$  is \_\_\_\_\_  $\times$  the value of  $8 \times 10^9$   

$$\frac{2 \times 10^3}{8 \times 10^9} = \frac{2}{8} \times \frac{10^3}{10^9} = \frac{1}{4} \times 10^{-6} = 0.25 \times 10^{-6}$$

2)  $2 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^9$   

$$\frac{2 \times 10^8}{3 \times 10^9} = \frac{2}{3} \times \frac{10^8}{10^9} = \frac{2}{3} \times 10^{-1} = 0.667 \times 10^{-1}$$

3)  $7 \times 10^6$  is \_\_\_\_\_  $\times$  the value of  $5 \times 10^3$   

$$\frac{7 \times 10^6}{5 \times 10^3} = \frac{7}{5} \times \frac{10^6}{10^3} = \frac{7}{5} \times 10^3 = 1.4 \times 10^3$$

4)  $5 \times 10^2$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^9$   

$$\frac{5 \times 10^2}{7 \times 10^9} = \frac{5}{7} \times \frac{10^2}{10^9} = \frac{5}{7} \times 10^{-7} = 0.714 \times 10^{-7}$$

5)  $6 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $2 \times 10^5$   

$$\frac{6 \times 10^8}{2 \times 10^5} = \frac{6}{2} \times \frac{10^8}{10^5} = \frac{3}{1} \times 10^3 = 3 \times 10^3$$

6)  $6 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $2 \times 10^9$   

$$\frac{6 \times 10^5}{2 \times 10^9} = \frac{6}{2} \times \frac{10^5}{10^9} = \frac{3}{1} \times 10^{-4} = 3 \times 10^{-4}$$

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

$$\frac{7 \times 10^9}{2 \times 10^2} = \frac{7}{2} \times \frac{10^9}{10^2} = \frac{7}{2} \times 10^7 = 3.5 \times 10^7$$

8)  $6 \times 10^2$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^7$   

$$\frac{6 \times 10^2}{7 \times 10^7} = \frac{6}{7} \times \frac{10^2}{10^7} = \frac{6}{7} \times 10^{-5} = 0.857 \times 10^{-5}$$

9)  $5 \times 10^3$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^7$   

$$\frac{5 \times 10^3}{6 \times 10^7} = \frac{5}{6} \times \frac{10^3}{10^7} = \frac{5}{6} \times 10^{-4} = 0.833 \times 10^{-4}$$

**Answers**

1. **0.00000025**

2. **0.0667**

3. **1,400**

4. **0.0000000714**

5. **3,000**

6. **0.0003**

7. **35,000,000**

8. **0.00000857**

9. **0.0000833**