



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

Answers

1)  $7 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^6$

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

2)  $6 \times 10^2$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^3$

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

3)  $4 \times 10^6$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^2$

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

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

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

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

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

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

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

7)  $5 \times 10^9$  is \_\_\_\_\_  $\times$  the value of  $8 \times 10^6$

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

8)  $7 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $2 \times 10^4$

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

9)  $5 \times 10^7$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^8$

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



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

1)  $7 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^6$   

$$\frac{7 \times 10^5}{3 \times 10^6} = \frac{7}{3} \times \frac{10^5}{10^6} = \frac{7}{3} \times 10^{-1} = 2.333 \times 10^{-1}$$

2)  $6 \times 10^2$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^3$   

$$\frac{6 \times 10^2}{7 \times 10^3} = \frac{6}{7} \times \frac{10^2}{10^3} = \frac{6}{7} \times 10^{-1} = 0.857 \times 10^{-1}$$

3)  $4 \times 10^6$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^2$   

$$\frac{4 \times 10^6}{3 \times 10^2} = \frac{4}{3} \times \frac{10^6}{10^2} = \frac{4}{3} \times 10^4 = 1.333 \times 10^4$$

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

$$\frac{9 \times 10^5}{4 \times 10^9} = \frac{9}{4} \times \frac{10^5}{10^9} = \frac{9}{4} \times 10^{-4} = 2.25 \times 10^{-4}$$

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

$$\frac{6 \times 10^7}{9 \times 10^6} = \frac{6}{9} \times \frac{10^7}{10^6} = \frac{2}{3} \times 10^1 = 0.667 \times 10^1$$

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

$$\frac{3 \times 10^3}{6 \times 10^5} = \frac{3}{6} \times \frac{10^3}{10^5} = \frac{1}{2} \times 10^{-2} = 0.5 \times 10^{-2}$$

7)  $5 \times 10^9$  is \_\_\_\_\_  $\times$  the value of  $8 \times 10^6$   

$$\frac{5 \times 10^9}{8 \times 10^6} = \frac{5}{8} \times \frac{10^9}{10^6} = \frac{5}{8} \times 10^3 = 0.625 \times 10^3$$

8)  $7 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $2 \times 10^4$   

$$\frac{7 \times 10^8}{2 \times 10^4} = \frac{7}{2} \times \frac{10^8}{10^4} = \frac{7}{2} \times 10^4 = 3.5 \times 10^4$$

9)  $5 \times 10^7$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^8$   

$$\frac{5 \times 10^7}{3 \times 10^8} = \frac{5}{3} \times \frac{10^7}{10^8} = \frac{5}{3} \times 10^{-1} = 1.667 \times 10^{-1}$$

**Answers**

1. **0.2333**

2. **0.0857**

3. **13,330**

4. **0.000225**

5. **6.67**

6. **0.005**

7. **625**

8. **35,000**

9. **0.1667**