



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

1)  $8 \times 10^3$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^5$

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

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

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

5)  $3 \times 10^2$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^9$

6)  $4 \times 10^9$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^6$

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

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

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

**Answers**

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

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

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

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

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

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

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

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

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



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

1)  $8 \times 10^3$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^5$   

$$\frac{8 \times 10^3}{6 \times 10^5} = \frac{8}{6} \times \frac{10^3}{10^5} = \frac{4}{3} \times 10^{-2} = 1.333 \times 10^{-2}$$

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

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

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

$$\frac{5 \times 10^8}{7 \times 10^5} = \frac{5}{7} \times \frac{10^8}{10^5} = \frac{5}{7} \times 10^3 = 0.714 \times 10^3$$

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

$$\frac{5 \times 10^9}{4 \times 10^2} = \frac{5}{4} \times \frac{10^9}{10^2} = \frac{5}{4} \times 10^7 = 1.25 \times 10^7$$

5)  $3 \times 10^2$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^9$   

$$\frac{3 \times 10^2}{6 \times 10^9} = \frac{3}{6} \times \frac{10^2}{10^9} = \frac{1}{2} \times 10^{-7} = 0.5 \times 10^{-7}$$

6)  $4 \times 10^9$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^6$   

$$\frac{4 \times 10^9}{7 \times 10^6} = \frac{4}{7} \times \frac{10^9}{10^6} = \frac{4}{7} \times 10^3 = 0.571 \times 10^3$$

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

$$\frac{2 \times 10^6}{6 \times 10^2} = \frac{2}{6} \times \frac{10^6}{10^2} = \frac{1}{3} \times 10^4 = 0.333 \times 10^4$$

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

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

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

$$\frac{7 \times 10^6}{6 \times 10^5} = \frac{7}{6} \times \frac{10^6}{10^5} = \frac{7}{6} \times 10^1 = 1.167 \times 10^1$$

**Answers**

1. **0.01333**

2. **0.003**

3. **714**

4. **12,500,000**

5. **0.00000005**

6. **571**

7. **3,330**

8. **0.3**

9. **11.67**