



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

Answers

1)  $3 \times 10^4$  is \_\_\_\_\_  $\times$  the value of  $2 \times 10^8$

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

2)  $4 \times 10^9$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^3$

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

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

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

4)  $4 \times 10^2$  is \_\_\_\_\_  $\times$  the value of  $5 \times 10^8$

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

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

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

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

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

7)  $3 \times 10^4$  is \_\_\_\_\_  $\times$  the value of  $4 \times 10^9$

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

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

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

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

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



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

1)  $3 \times 10^4$  is \_\_\_\_\_  $\times$  the value of  $2 \times 10^8$

$$\frac{3 \times 10^4}{2 \times 10^8} = \frac{3}{2} \times \frac{10^4}{10^8} = \frac{3}{2} \times 10^{-4} = 1.5 \times 10^{-4}$$

2)  $4 \times 10^9$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^3$

$$\frac{4 \times 10^9}{6 \times 10^3} = \frac{4}{6} \times \frac{10^9}{10^3} = \frac{2}{3} \times 10^6 = 0.667 \times 10^6$$

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

$$\frac{2 \times 10^2}{3 \times 10^6} = \frac{2}{3} \times \frac{10^2}{10^6} = \frac{2}{3} \times 10^{-4} = 0.667 \times 10^{-4}$$

4)  $4 \times 10^2$  is \_\_\_\_\_  $\times$  the value of  $5 \times 10^8$

$$\frac{4 \times 10^2}{5 \times 10^8} = \frac{4}{5} \times \frac{10^2}{10^8} = \frac{4}{5} \times 10^{-6} = 0.8 \times 10^{-6}$$

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

$$\frac{9 \times 10^4}{2 \times 10^7} = \frac{9}{2} \times \frac{10^4}{10^7} = \frac{9}{2} \times 10^{-3} = 4.5 \times 10^{-3}$$

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

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

7)  $3 \times 10^4$  is \_\_\_\_\_  $\times$  the value of  $4 \times 10^9$

$$\frac{3 \times 10^4}{4 \times 10^9} = \frac{3}{4} \times \frac{10^4}{10^9} = \frac{3}{4} \times 10^{-5} = 0.75 \times 10^{-5}$$

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

$$\frac{6 \times 10^8}{9 \times 10^9} = \frac{6}{9} \times \frac{10^8}{10^9} = \frac{2}{3} \times 10^{-1} = 0.667 \times 10^{-1}$$

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

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

**Answers**

1. **0.00015**

2. **667,000**

3. **0.0000667**

4. **0.0000008**

5. **0.0045**

6. **0.3**

7. **0.0000075**

8. **0.0667**

9. **0.000571**