



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

1)  $2 \times 10^7$  is \_\_\_\_\_  $\times$  the value of  $4 \times 10^8$

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

3)  $4 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^4$

4)  $8 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^4$

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

6)  $4 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $5 \times 10^9$

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

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

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

Answers

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

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

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

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

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

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

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

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

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



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

1)  $2 \times 10^7$  is \_\_\_\_\_  $\times$  the value of  $4 \times 10^8$

$$\frac{2 \times 10^7}{4 \times 10^8} = \frac{2}{4} \times \frac{10^7}{10^8} = \frac{1}{2} \times 10^{-1} = 0.5 \times 10^{-1}$$

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

$$\frac{4 \times 10^5}{9 \times 10^7} = \frac{4}{9} \times \frac{10^5}{10^7} = \frac{4}{9} \times 10^{-2} = 0.444 \times 10^{-2}$$

3)  $4 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^4$

$$\frac{4 \times 10^5}{9 \times 10^4} = \frac{4}{9} \times \frac{10^5}{10^4} = \frac{4}{9} \times 10^1 = 0.444 \times 10^1$$

4)  $8 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^4$

$$\frac{8 \times 10^5}{3 \times 10^4} = \frac{8}{3} \times \frac{10^5}{10^4} = \frac{8}{3} \times 10^1 = 2.667 \times 10^1$$

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

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

6)  $4 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $5 \times 10^9$

$$\frac{4 \times 10^5}{5 \times 10^9} = \frac{4}{5} \times \frac{10^5}{10^9} = \frac{4}{5} \times 10^{-4} = 0.8 \times 10^{-4}$$

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

$$\frac{2 \times 10^5}{9 \times 10^2} = \frac{2}{9} \times \frac{10^5}{10^2} = \frac{2}{9} \times 10^3 = 0.222 \times 10^3$$

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

$$\frac{8 \times 10^3}{3 \times 10^8} = \frac{8}{3} \times \frac{10^3}{10^8} = \frac{8}{3} \times 10^{-5} = 2.667 \times 10^{-5}$$

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

$$\frac{2 \times 10^9}{4 \times 10^3} = \frac{2}{4} \times \frac{10^9}{10^3} = \frac{1}{2} \times 10^6 = 0.5 \times 10^6$$

Answers

1. 0.05

2. 0.00444

3. 4.44

4. 26.67

5. 3,000

6. 0.00008

7. 222

8. 0.00002667

9. 500,000