



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

Answers

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

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

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

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

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

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

4)  $7 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^4$

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

5)  $2 \times 10^4$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^9$

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

6)  $8 \times 10^7$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^3$

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

7)  $9 \times 10^4$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^5$

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

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

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

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

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



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

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

$$\frac{2 \times 10^7}{8 \times 10^2} = \frac{2}{8} \times \frac{10^7}{10^2} = \frac{1}{4} \times 10^5 = 0.25 \times 10^5$$

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

$$\frac{9 \times 10^6}{6 \times 10^4} = \frac{9}{6} \times \frac{10^6}{10^4} = \frac{3}{2} \times 10^2 = 1.5 \times 10^2$$

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

$$\frac{3 \times 10^4}{8 \times 10^5} = \frac{3}{8} \times \frac{10^4}{10^5} = \frac{3}{8} \times 10^{-1} = 0.375 \times 10^{-1}$$

4)  $7 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^4$

$$\frac{7 \times 10^8}{9 \times 10^4} = \frac{7}{9} \times \frac{10^8}{10^4} = \frac{7}{9} \times 10^4 = 0.778 \times 10^4$$

5)  $2 \times 10^4$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^9$

$$\frac{2 \times 10^4}{3 \times 10^9} = \frac{2}{3} \times \frac{10^4}{10^9} = \frac{2}{3} \times 10^{-5} = 0.667 \times 10^{-5}$$

6)  $8 \times 10^7$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^3$

$$\frac{8 \times 10^7}{9 \times 10^3} = \frac{8}{9} \times \frac{10^7}{10^3} = \frac{8}{9} \times 10^4 = 0.889 \times 10^4$$

7)  $9 \times 10^4$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^5$

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

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

$$\frac{4 \times 10^8}{5 \times 10^5} = \frac{4}{5} \times \frac{10^8}{10^5} = \frac{4}{5} \times 10^3 = 0.8 \times 10^3$$

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

$$\frac{7 \times 10^2}{9 \times 10^5} = \frac{7}{9} \times \frac{10^2}{10^5} = \frac{7}{9} \times 10^{-3} = 0.778 \times 10^{-3}$$

**Answers**

1. **25,000**

2. **150**

3. **0.0375**

4. **7,780**

5. **0.00000667**

6. **8,890**

7. **0.3**

8. **800**

9. **0.000778**