



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

Answers

1)  $9 \times 10^3$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^4$

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

2)  $9 \times 10^6$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^7$

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

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

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

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

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

5)  $3 \times 10^7$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^2$

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

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

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

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

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

8)  $2 \times 10^9$  is \_\_\_\_\_  $\times$  the value of  $5 \times 10^3$

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

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

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



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

1)  $9 \times 10^3$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^4$

$$\frac{9 \times 10^3}{6 \times 10^4} = \frac{9}{6} \times \frac{10^3}{10^4} = \frac{3}{2} \times 10^{-1} = 1.5 \times 10^{-1}$$

2)  $9 \times 10^6$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^7$

$$\frac{9 \times 10^6}{7 \times 10^7} = \frac{9}{7} \times \frac{10^6}{10^7} = \frac{9}{7} \times 10^{-1} = 1.286 \times 10^{-1}$$

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

$$\frac{9 \times 10^4}{5 \times 10^2} = \frac{9}{5} \times \frac{10^4}{10^2} = \frac{9}{5} \times 10^2 = 1.8 \times 10^2$$

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

$$\frac{2 \times 10^7}{4 \times 10^4} = \frac{2}{4} \times \frac{10^7}{10^4} = \frac{1}{2} \times 10^3 = 0.5 \times 10^3$$

5)  $3 \times 10^7$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^2$

$$\frac{3 \times 10^7}{9 \times 10^2} = \frac{3}{9} \times \frac{10^7}{10^2} = \frac{1}{3} \times 10^5 = 0.333 \times 10^5$$

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

$$\frac{3 \times 10^5}{2 \times 10^6} = \frac{3}{2} \times \frac{10^5}{10^6} = \frac{3}{2} \times 10^{-1} = 1.5 \times 10^{-1}$$

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

$$\frac{7 \times 10^6}{3 \times 10^8} = \frac{7}{3} \times \frac{10^6}{10^8} = \frac{7}{3} \times 10^{-2} = 2.333 \times 10^{-2}$$

8)  $2 \times 10^9$  is \_\_\_\_\_  $\times$  the value of  $5 \times 10^3$

$$\frac{2 \times 10^9}{5 \times 10^3} = \frac{2}{5} \times \frac{10^9}{10^3} = \frac{2}{5} \times 10^6 = 0.4 \times 10^6$$

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

$$\frac{3 \times 10^8}{8 \times 10^6} = \frac{3}{8} \times \frac{10^8}{10^6} = \frac{3}{8} \times 10^2 = 0.375 \times 10^2$$

Answers

1. 0.15

2. 0.1286

3. 180

4. 500

5. 33,300

6. 0.15

7. 0.02333

8. 400,000

9. 37.5