



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

Answers

1)  $3 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $5 \times 10^9$

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

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

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

3)  $8 \times 10^4$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^6$

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

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

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

5)  $8 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^4$

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

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

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

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

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

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

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

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

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



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

1)  $3 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $5 \times 10^9$

$$\frac{3 \times 10^8}{5 \times 10^9} = \frac{3}{5} \times \frac{10^8}{10^9} = \frac{3}{5} \times 10^{-1} = 0.6 \times 10^{-1}$$

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

$$\frac{6 \times 10^8}{7 \times 10^2} = \frac{6}{7} \times \frac{10^8}{10^2} = \frac{6}{7} \times 10^6 = 0.857 \times 10^6$$

3)  $8 \times 10^4$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^6$

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

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

$$\frac{4 \times 10^9}{8 \times 10^8} = \frac{4}{8} \times \frac{10^9}{10^8} = \frac{1}{2} \times 10^1 = 0.5 \times 10^1$$

5)  $8 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $6 \times 10^4$

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

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

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

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

$$\frac{2 \times 10^7}{3 \times 10^3} = \frac{2}{3} \times \frac{10^7}{10^3} = \frac{2}{3} \times 10^4 = 0.667 \times 10^4$$

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

$$\frac{9 \times 10^4}{4 \times 10^9} = \frac{9}{4} \times \frac{10^4}{10^9} = \frac{9}{4} \times 10^{-5} = 2.25 \times 10^{-5}$$

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

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

Answers

1. 0.06

2. 857,000

3. 0.01333

4. 5

5. 13,330

6. 5

7. 6,670

8. 0.0000225

9. 300