



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

Answers

1) 3×10^3 is _____ $\times$ the value of 8×10^6

1. _____

2) 9×10^9 is _____ $\times$ the value of 4×10^7

2. _____

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

3. _____

4) 3×10^9 is _____ $\times$ the value of 6×10^4

4. _____

5) 2×10^7 is _____ $\times$ the value of 6×10^3

5. _____

6) 8×10^4 is _____ $\times$ the value of 7×10^6

6. _____

7) 5×10^9 is _____ $\times$ the value of 2×10^6

7. _____

8) 2×10^2 is _____ $\times$ the value of 6×10^5

8. _____

9) 7×10^9 is _____ $\times$ the value of 8×10^6

9. _____



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

- 1) 3×10^3 is _____ $\times$ the value of 8×10^6

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

- 2) 9×10^9 is _____ $\times$ the value of 4×10^7

$$\frac{9 \times 10^9}{4 \times 10^7} = \frac{9}{4} \times \frac{10^9}{10^7} = \frac{9}{4} \times 10^2 = 2.25 \times 10^2$$

- 3) 3×10^2 is _____ $\times$ the value of 4×10^6

$$\frac{3 \times 10^2}{4 \times 10^6} = \frac{3}{4} \times \frac{10^2}{10^6} = \frac{3}{4} \times 10^{-4} = 0.75 \times 10^{-4}$$

- 4) 3×10^9 is _____ $\times$ the value of 6×10^4

$$\frac{3 \times 10^9}{6 \times 10^4} = \frac{3}{6} \times \frac{10^9}{10^4} = \frac{1}{2} \times 10^5 = 0.5 \times 10^5$$

- 5) 2×10^7 is _____ $\times$ the value of 6×10^3

$$\frac{2 \times 10^7}{6 \times 10^3} = \frac{2}{6} \times \frac{10^7}{10^3} = \frac{1}{3} \times 10^4 = 0.333 \times 10^4$$

- 6) 8×10^4 is _____ $\times$ the value of 7×10^6

$$\frac{8 \times 10^4}{7 \times 10^6} = \frac{8}{7} \times \frac{10^4}{10^6} = \frac{8}{7} \times 10^{-2} = 1.143 \times 10^{-2}$$

- 7) 5×10^9 is _____ $\times$ the value of 2×10^6

$$\frac{5 \times 10^9}{2 \times 10^6} = \frac{5}{2} \times \frac{10^9}{10^6} = \frac{5}{2} \times 10^3 = 2.5 \times 10^3$$

- 8) 2×10^2 is _____ $\times$ the value of 6×10^5

$$\frac{2 \times 10^2}{6 \times 10^5} = \frac{2}{6} \times \frac{10^2}{10^5} = \frac{1}{3} \times 10^{-3} = 0.333 \times 10^{-3}$$

- 9) 7×10^9 is _____ $\times$ the value of 8×10^6

$$\frac{7 \times 10^9}{8 \times 10^6} = \frac{7}{8} \times \frac{10^9}{10^6} = \frac{7}{8} \times 10^3 = 0.875 \times 10^3$$

Answers

1. **0.000375**

2. **225**

3. **0.000075**

4. **50,000**

5. **3,330**

6. **0.01143**

7. **2,500**

8. **0.000333**

9. **875**