



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

Answers

1) 5×10^9 is _____ $\times$ the value of 3×10^3

1. _____

2) 9×10^2 is _____ $\times$ the value of 2×10^3

2. _____

3) 9×10^2 is _____ $\times$ the value of 2×10^7

3. _____

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

4. _____

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

5. _____

6) 2×10^4 is _____ $\times$ the value of 9×10^5

6. _____

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

7. _____

8) 8×10^2 is _____ $\times$ the value of 5×10^7

8. _____

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

9. _____



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

- 1)
- 5×10^9
- is _____
- $\times$
- the value of
- 3×10^3

$$\frac{5 \times 10^9}{3 \times 10^3} = \frac{5}{3} \times \frac{10^9}{10^3} = \frac{5}{3} \times 10^6 = 1.667 \times 10^6$$

- 2)
- 9×10^2
- is _____
- $\times$
- the value of
- 2×10^3

$$\frac{9 \times 10^2}{2 \times 10^3} = \frac{9}{2} \times \frac{10^2}{10^3} = \frac{9}{2} \times 10^{-1} = 4.5 \times 10^{-1}$$

- 3)
- 9×10^2
- is _____
- $\times$
- the value of
- 2×10^7

$$\frac{9 \times 10^2}{2 \times 10^7} = \frac{9}{2} \times \frac{10^2}{10^7} = \frac{9}{2} \times 10^{-5} = 4.5 \times 10^{-5}$$

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

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

- 5)
- 4×10^9
- is _____
- $\times$
- the value of
- 6×10^6

$$\frac{4 \times 10^9}{6 \times 10^6} = \frac{4}{6} \times \frac{10^9}{10^6} = \frac{2}{3} \times 10^3 = 0.667 \times 10^3$$

- 6)
- 2×10^4
- is _____
- $\times$
- the value of
- 9×10^5

$$\frac{2 \times 10^4}{9 \times 10^5} = \frac{2}{9} \times \frac{10^4}{10^5} = \frac{2}{9} \times 10^{-1} = 0.222 \times 10^{-1}$$

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

$$\frac{4 \times 10^6}{7 \times 10^4} = \frac{4}{7} \times \frac{10^6}{10^4} = \frac{4}{7} \times 10^2 = 0.571 \times 10^2$$

- 8)
- 8×10^2
- is _____
- $\times$
- the value of
- 5×10^7

$$\frac{8 \times 10^2}{5 \times 10^7} = \frac{8}{5} \times \frac{10^2}{10^7} = \frac{8}{5} \times 10^{-5} = 1.6 \times 10^{-5}$$

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

$$\frac{7 \times 10^9}{4 \times 10^4} = \frac{7}{4} \times \frac{10^9}{10^4} = \frac{7}{4} \times 10^5 = 1.75 \times 10^5$$

Answers1. **1,667,000**2. **0.45**3. **0.000045**4. **0.00000444**5. **667**6. **0.0222**7. **57.1**8. **0.000016**9. **175,000**