



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

Answers

1) 8×10^4 is _____ $\times$ the value of 9×10^7

1. _____

2) 4×10^8 is _____ $\times$ the value of 9×10^9

2. _____

3) 9×10^8 is _____ $\times$ the value of 3×10^4

3. _____

4) 2×10^9 is _____ $\times$ the value of 8×10^2

4. _____

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

5. _____

6) 7×10^8 is _____ $\times$ the value of 9×10^5

6. _____

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

7. _____

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

8. _____

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

9. _____



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

- 1)
- 8×10^4
- is _____
- $\times$
- the value of
- 9×10^7

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

- 2)
- 4×10^8
- is _____
- $\times$
- the value of
- 9×10^9

$$\frac{4 \times 10^8}{9 \times 10^9} = \frac{4}{9} \times \frac{10^8}{10^9} = \frac{4}{9} \times 10^{-1} = 0.444 \times 10^{-1}$$

- 3)
- 9×10^8
- is _____
- $\times$
- the value of
- 3×10^4

$$\frac{9 \times 10^8}{3 \times 10^4} = \frac{9}{3} \times \frac{10^8}{10^4} = \frac{3}{1} \times 10^4 = 3 \times 10^4$$

- 4)
- 2×10^9
- is _____
- $\times$
- the value of
- 8×10^2

$$\frac{2 \times 10^9}{8 \times 10^2} = \frac{2}{8} \times \frac{10^9}{10^2} = \frac{1}{4} \times 10^7 = 0.25 \times 10^7$$

- 5)
- 4×10^8
- is _____
- $\times$
- the value of
- 5×10^3

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

- 6)
- 7×10^8
- is _____
- $\times$
- the value of
- 9×10^5

$$\frac{7 \times 10^8}{9 \times 10^5} = \frac{7}{9} \times \frac{10^8}{10^5} = \frac{7}{9} \times 10^3 = 0.778 \times 10^3$$

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

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

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

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

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

$$\frac{2 \times 10^2}{9 \times 10^7} = \frac{2}{9} \times \frac{10^2}{10^7} = \frac{2}{9} \times 10^{-5} = 0.222 \times 10^{-5}$$

Answers1. **0.000889**2. **0.0444**3. **30,000**4. **2,500,000**5. **80,000**6. **778**7. **0.0001333**8. **0.0001143**9. **0.00000222**