



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

Answers

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

1. _____

2) 8×10^7 is _____ \times the value of 7×10^4

2. _____

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

3. _____

4) 6×10^9 is _____ \times the value of 8×10^2

4. _____

5) 4×10^4 is _____ \times the value of 7×10^2

5. _____

6) 9×10^8 is _____ \times the value of 3×10^3

6. _____

7) 4×10^5 is _____ \times the value of 5×10^7

7. _____

8) 7×10^6 is _____ \times the value of 2×10^5

8. _____

9) 8×10^8 is _____ \times the value of 2×10^6

9. _____



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

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

$$\frac{4 \times 10^7}{8 \times 10^4} = \frac{4}{8} \times \frac{10^7}{10^4} = \frac{1}{2} \times 10^3 = 0.5 \times 10^3$$
- 2) 8×10^7 is _____ \times the value of 7×10^4

$$\frac{8 \times 10^7}{7 \times 10^4} = \frac{8}{7} \times \frac{10^7}{10^4} = \frac{8}{7} \times 10^3 = 1.143 \times 10^3$$
- 3) 8×10^3 is _____ \times the value of 4×10^4

$$\frac{8 \times 10^3}{4 \times 10^4} = \frac{8}{4} \times \frac{10^3}{10^4} = \frac{2}{1} \times 10^{-1} = 2 \times 10^{-1}$$
- 4) 6×10^9 is _____ \times the value of 8×10^2

$$\frac{6 \times 10^9}{8 \times 10^2} = \frac{6}{8} \times \frac{10^9}{10^2} = \frac{3}{4} \times 10^7 = 0.75 \times 10^7$$
- 5) 4×10^4 is _____ \times the value of 7×10^2

$$\frac{4 \times 10^4}{7 \times 10^2} = \frac{4}{7} \times \frac{10^4}{10^2} = \frac{4}{7} \times 10^2 = 0.571 \times 10^2$$
- 6) 9×10^8 is _____ \times the value of 3×10^3

$$\frac{9 \times 10^8}{3 \times 10^3} = \frac{9}{3} \times \frac{10^8}{10^3} = \frac{3}{1} \times 10^5 = 3 \times 10^5$$
- 7) 4×10^5 is _____ \times the value of 5×10^7

$$\frac{4 \times 10^5}{5 \times 10^7} = \frac{4}{5} \times \frac{10^5}{10^7} = \frac{4}{5} \times 10^{-2} = 0.8 \times 10^{-2}$$
- 8) 7×10^6 is _____ \times the value of 2×10^5

$$\frac{7 \times 10^6}{2 \times 10^5} = \frac{7}{2} \times \frac{10^6}{10^5} = \frac{7}{2} \times 10^1 = 3.5 \times 10^1$$
- 9) 8×10^8 is _____ \times the value of 2×10^6

$$\frac{8 \times 10^8}{2 \times 10^6} = \frac{8}{2} \times \frac{10^8}{10^6} = \frac{4}{1} \times 10^2 = 4 \times 10^2$$

Answers

1. **500**
2. **1,143**
3. **0.2**
4. **7,500,000**
5. **57.1**
6. **300,000**
7. **0.008**
8. **35**
9. **400**