



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

1) 5×10^6 is _____ \times the value of 2×10^4

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

3) 4×10^8 is _____ \times the value of 7×10^7

4) 9×10^3 is _____ \times the value of 7×10^2

5) 4×10^3 is _____ \times the value of 9×10^5

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

7) 3×10^5 is _____ \times the value of 7×10^4

8) 2×10^3 is _____ \times the value of 4×10^6

9) 4×10^4 is _____ \times the value of 3×10^5

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____



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

1) 5×10^6 is _____ \times the value of 2×10^4

$$\frac{5 \times 10^6}{2 \times 10^4} = \frac{5}{2} \times \frac{10^6}{10^4} = \frac{5}{2} \times 10^2 = 2.5 \times 10^2$$

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

$$\frac{2 \times 10^7}{5 \times 10^5} = \frac{2}{5} \times \frac{10^7}{10^5} = \frac{2}{5} \times 10^2 = 0.4 \times 10^2$$

3) 4×10^8 is _____ \times the value of 7×10^7

$$\frac{4 \times 10^8}{7 \times 10^7} = \frac{4}{7} \times \frac{10^8}{10^7} = \frac{4}{7} \times 10^1 = 0.571 \times 10^1$$

4) 9×10^3 is _____ \times the value of 7×10^2

$$\frac{9 \times 10^3}{7 \times 10^2} = \frac{9}{7} \times \frac{10^3}{10^2} = \frac{9}{7} \times 10^1 = 1.286 \times 10^1$$

5) 4×10^3 is _____ \times the value of 9×10^5

$$\frac{4 \times 10^3}{9 \times 10^5} = \frac{4}{9} \times \frac{10^3}{10^5} = \frac{4}{9} \times 10^{-2} = 0.444 \times 10^{-2}$$

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

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

7) 3×10^5 is _____ \times the value of 7×10^4

$$\frac{3 \times 10^5}{7 \times 10^4} = \frac{3}{7} \times \frac{10^5}{10^4} = \frac{3}{7} \times 10^1 = 0.429 \times 10^1$$

8) 2×10^3 is _____ \times the value of 4×10^6

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

9) 4×10^4 is _____ \times the value of 3×10^5

$$\frac{4 \times 10^4}{3 \times 10^5} = \frac{4}{3} \times \frac{10^4}{10^5} = \frac{4}{3} \times 10^{-1} = 1.333 \times 10^{-1}$$

Answers

1. **250**

2. **40**

3. **5.71**

4. **12.86**

5. **0.00444**

6. **2,500**

7. **4.29**

8. **0.0005**

9. **0.1333**