



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

Answers

1) 9×10^4 is _____ \times the value of 7×10^2

1. _____

2) 4×10^7 is _____ \times the value of 8×10^5

2. _____

3) 9×10^5 is _____ \times the value of 6×10^7

3. _____

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

4. _____

5) 4×10^2 is _____ \times the value of 3×10^3

5. _____

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

6. _____

7) 9×10^4 is _____ \times the value of 2×10^5

7. _____

8) 5×10^9 is _____ \times the value of 9×10^4

8. _____

9) 6×10^2 is _____ \times the value of 3×10^5

9. _____



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

1) 9×10^4 is _____ \times the value of 7×10^2

$$\frac{9 \times 10^4}{7 \times 10^2} = \frac{9}{7} \times \frac{10^4}{10^2} = \frac{9}{7} \times 10^2 = 1.286 \times 10^2$$

2) 4×10^7 is _____ \times the value of 8×10^5

$$\frac{4 \times 10^7}{8 \times 10^5} = \frac{4}{8} \times \frac{10^7}{10^5} = \frac{1}{2} \times 10^2 = 0.5 \times 10^2$$

3) 9×10^5 is _____ \times the value of 6×10^7

$$\frac{9 \times 10^5}{6 \times 10^7} = \frac{9}{6} \times \frac{10^5}{10^7} = \frac{3}{2} \times 10^{-2} = 1.5 \times 10^{-2}$$

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

$$\frac{2 \times 10^4}{9 \times 10^3} = \frac{2}{9} \times \frac{10^4}{10^3} = \frac{2}{9} \times 10^1 = 0.222 \times 10^1$$

5) 4×10^2 is _____ \times the value of 3×10^3

$$\frac{4 \times 10^2}{3 \times 10^3} = \frac{4}{3} \times \frac{10^2}{10^3} = \frac{4}{3} \times 10^{-1} = 1.333 \times 10^{-1}$$

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

$$\frac{3 \times 10^2}{7 \times 10^5} = \frac{3}{7} \times \frac{10^2}{10^5} = \frac{3}{7} \times 10^{-3} = 0.429 \times 10^{-3}$$

7) 9×10^4 is _____ \times the value of 2×10^5

$$\frac{9 \times 10^4}{2 \times 10^5} = \frac{9}{2} \times \frac{10^4}{10^5} = \frac{9}{2} \times 10^{-1} = 4.5 \times 10^{-1}$$

8) 5×10^9 is _____ \times the value of 9×10^4

$$\frac{5 \times 10^9}{9 \times 10^4} = \frac{5}{9} \times \frac{10^9}{10^4} = \frac{5}{9} \times 10^5 = 0.556 \times 10^5$$

9) 6×10^2 is _____ \times the value of 3×10^5

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

Answers

1. **128.6**

2. **50**

3. **0.015**

4. **2.22**

5. **0.1333**

6. **0.000429**

7. **0.45**

8. **55,600**

9. **0.002**