



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

Answers

1) 3×10^8 is _____ \times the value of 5×10^4

1. _____

2) 6×10^4 is _____ \times the value of 9×10^7

2. _____

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

3. _____

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

4. _____

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

5. _____

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

6. _____

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

7. _____

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

8. _____

9) 9×10^2 is _____ \times the value of 7×10^6

9. _____



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

1) 3×10^8 is _____ \times the value of 5×10^4

$$\frac{3 \times 10^8}{5 \times 10^4} = \frac{3}{5} \times \frac{10^8}{10^4} = \frac{3}{5} \times 10^4 = 0.6 \times 10^4$$

2) 6×10^4 is _____ \times the value of 9×10^7

$$\frac{6 \times 10^4}{9 \times 10^7} = \frac{6}{9} \times \frac{10^4}{10^7} = \frac{2}{3} \times 10^{-3} = 0.667 \times 10^{-3}$$

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

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

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

$$\frac{7 \times 10^2}{3 \times 10^3} = \frac{7}{3} \times \frac{10^2}{10^3} = \frac{7}{3} \times 10^{-1} = 2.333 \times 10^{-1}$$

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

$$\frac{2 \times 10^8}{7 \times 10^4} = \frac{2}{7} \times \frac{10^8}{10^4} = \frac{2}{7} \times 10^4 = 0.286 \times 10^4$$

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

$$\frac{3 \times 10^5}{5 \times 10^6} = \frac{3}{5} \times \frac{10^5}{10^6} = \frac{3}{5} \times 10^{-1} = 0.6 \times 10^{-1}$$

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

$$\frac{5 \times 10^9}{7 \times 10^8} = \frac{5}{7} \times \frac{10^9}{10^8} = \frac{5}{7} \times 10^1 = 0.714 \times 10^1$$

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

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

9) 9×10^2 is _____ \times the value of 7×10^6

$$\frac{9 \times 10^2}{7 \times 10^6} = \frac{9}{7} \times \frac{10^2}{10^6} = \frac{9}{7} \times 10^{-4} = 1.286 \times 10^{-4}$$

Answers

1. **6,000**

2. **0.000667**

3. **667**

4. **0.2333**

5. **2,860**

6. **0.06**

7. **7.14**

8. **0.0000175**

9. **0.0001286**