



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

Answers

1) 3×10^8 is _____ \times the value of 6×10^4

1. _____

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

2. _____

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

3. _____

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

4. _____

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

5. _____

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

6. _____

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

7. _____

8) 7×10^5 is _____ \times the value of 8×10^3

8. _____

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

9. _____



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

1) 3×10^8 is _____ \times the value of 6×10^4

$$\frac{3 \times 10^8}{6 \times 10^4} = \frac{3}{6} \times \frac{10^8}{10^4} = \frac{1}{2} \times 10^4 = 0.5 \times 10^4$$

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

$$\frac{5 \times 10^3}{2 \times 10^9} = \frac{5}{2} \times \frac{10^3}{10^9} = \frac{5}{2} \times 10^{-6} = 2.5 \times 10^{-6}$$

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

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

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

$$\frac{7 \times 10^4}{9 \times 10^6} = \frac{7}{9} \times \frac{10^4}{10^6} = \frac{7}{9} \times 10^{-2} = 0.778 \times 10^{-2}$$

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

$$\frac{6 \times 10^9}{5 \times 10^8} = \frac{6}{5} \times \frac{10^9}{10^8} = \frac{6}{5} \times 10^1 = 1.2 \times 10^1$$

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

$$\frac{5 \times 10^2}{7 \times 10^5} = \frac{5}{7} \times \frac{10^2}{10^5} = \frac{5}{7} \times 10^{-3} = 0.714 \times 10^{-3}$$

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

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

8) 7×10^5 is _____ \times the value of 8×10^3

$$\frac{7 \times 10^5}{8 \times 10^3} = \frac{7}{8} \times \frac{10^5}{10^3} = \frac{7}{8} \times 10^2 = 0.875 \times 10^2$$

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

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

Answers

1. **5,000**

2. **0.0000025**

3. **6,670**

4. **0.00778**

5. **12**

6. **0.000714**

7. **0.00005**

8. **87.5**

9. **42,900**