



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

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

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

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

4) 7×10^5 is _____ \times the value of 9×10^6

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

6) 9×10^8 is _____ \times the value of 5×10^2

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

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

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____



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

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

$$\frac{6 \times 10^4}{4 \times 10^3} = \frac{6}{4} \times \frac{10^4}{10^3} = \frac{3}{2} \times 10^1 = 1.5 \times 10^1$$

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

$$\frac{2 \times 10^6}{8 \times 10^3} = \frac{2}{8} \times \frac{10^6}{10^3} = \frac{1}{4} \times 10^3 = 0.25 \times 10^3$$

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

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

4) 7×10^5 is _____ \times the value of 9×10^6

$$\frac{7 \times 10^5}{9 \times 10^6} = \frac{7}{9} \times \frac{10^5}{10^6} = \frac{7}{9} \times 10^{-1} = 0.778 \times 10^{-1}$$

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

$$\frac{2 \times 10^5}{5 \times 10^3} = \frac{2}{5} \times \frac{10^5}{10^3} = \frac{2}{5} \times 10^2 = 0.4 \times 10^2$$

6) 9×10^8 is _____ \times the value of 5×10^2

$$\frac{9 \times 10^8}{5 \times 10^2} = \frac{9}{5} \times \frac{10^8}{10^2} = \frac{9}{5} \times 10^6 = 1.8 \times 10^6$$

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

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

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

$$\frac{5 \times 10^8}{6 \times 10^6} = \frac{5}{6} \times \frac{10^8}{10^6} = \frac{5}{6} \times 10^2 = 0.833 \times 10^2$$

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

$$\frac{5 \times 10^3}{3 \times 10^6} = \frac{5}{3} \times \frac{10^3}{10^6} = \frac{5}{3} \times 10^{-3} = 1.667 \times 10^{-3}$$

Answers

1. 15

2. 250

3. 0.0015

4. 0.0778

5. 40

6. 1,800,000

7. 200

8. 83.3

9. 0.001667