



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

Answers

1) 9×10^3 is _____ $\times$ the value of 5×10^2

1. _____

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

2. _____

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

3. _____

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

4. _____

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

5. _____

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

6. _____

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

7. _____

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

8. _____

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

9. _____



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

Answers

- 1)
- 9×10^3
- is _____
- $\times$
- the value of
- 5×10^2

$$\frac{9 \times 10^3}{5 \times 10^2} = \frac{9}{5} \times \frac{10^3}{10^2} = \frac{9}{5} \times 10^1 = 1.8 \times 10^1$$

1. **18**

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

$$\frac{3 \times 10^6}{4 \times 10^3} = \frac{3}{4} \times \frac{10^6}{10^3} = \frac{3}{4} \times 10^3 = 0.75 \times 10^3$$

2. **750**

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

$$\frac{4 \times 10^3}{9 \times 10^2} = \frac{4}{9} \times \frac{10^3}{10^2} = \frac{4}{9} \times 10^1 = 0.444 \times 10^1$$

3. **4.44**

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

$$\frac{6 \times 10^6}{7 \times 10^2} = \frac{6}{7} \times \frac{10^6}{10^2} = \frac{6}{7} \times 10^4 = 0.857 \times 10^4$$

4. **8,570**

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

$$\frac{7 \times 10^5}{3 \times 10^7} = \frac{7}{3} \times \frac{10^5}{10^7} = \frac{7}{3} \times 10^{-2} = 2.333 \times 10^{-2}$$

5. **0.02333**

- 6)
- 4×10^5
- is _____
- $\times$
- the value of
- 5×10^4

$$\frac{4 \times 10^5}{5 \times 10^4} = \frac{4}{5} \times \frac{10^5}{10^4} = \frac{4}{5} \times 10^1 = 0.8 \times 10^1$$

6. **8**

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

$$\frac{2 \times 10^2}{6 \times 10^5} = \frac{2}{6} \times \frac{10^2}{10^5} = \frac{1}{3} \times 10^{-3} = 0.333 \times 10^{-3}$$

7. **0.000333**

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

$$\frac{2 \times 10^3}{6 \times 10^8} = \frac{2}{6} \times \frac{10^3}{10^8} = \frac{1}{3} \times 10^{-5} = 0.333 \times 10^{-5}$$

8. **0.00000333**

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

$$\frac{4 \times 10^2}{3 \times 10^7} = \frac{4}{3} \times \frac{10^2}{10^7} = \frac{4}{3} \times 10^{-5} = 1.333 \times 10^{-5}$$

9. **0.00001333**