



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

Answers

1) 4×10^5 is _____ $\times$ the value of 2×10^4

1. _____

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

2. _____

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

3. _____

4) 6×10^5 is _____ $\times$ the value of 3×10^8

4. _____

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

5. _____

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

6. _____

7) 3×10^8 is _____ $\times$ the value of 9×10^3

7. _____

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

8. _____

9) 8×10^8 is _____ $\times$ the value of 3×10^9

9. _____



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

Answers

- 1)
- 4×10^5
- is _____
- $\times$
- the value of
- 2×10^4

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

1. **20**

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

$$\frac{6 \times 10^3}{3 \times 10^7} = \frac{6}{3} \times \frac{10^3}{10^7} = \frac{2}{1} \times 10^{-4} = 2 \times 10^{-4}$$

2. **0.0002**

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

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

3. **300**

- 4)
- 6×10^5
- is _____
- $\times$
- the value of
- 3×10^8

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

4. **0.002**

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

$$\frac{2 \times 10^5}{7 \times 10^8} = \frac{2}{7} \times \frac{10^5}{10^8} = \frac{2}{7} \times 10^{-3} = 0.286 \times 10^{-3}$$

5. **0.000286**

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

$$\frac{6 \times 10^2}{7 \times 10^9} = \frac{6}{7} \times \frac{10^2}{10^9} = \frac{6}{7} \times 10^{-7} = 0.857 \times 10^{-7}$$

6. **0.0000000857**

- 7)
- 3×10^8
- is _____
- $\times$
- the value of
- 9×10^3

$$\frac{3 \times 10^8}{9 \times 10^3} = \frac{3}{9} \times \frac{10^8}{10^3} = \frac{1}{3} \times 10^5 = 0.333 \times 10^5$$

7. **33,300**

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

$$\frac{5 \times 10^5}{6 \times 10^2} = \frac{5}{6} \times \frac{10^5}{10^2} = \frac{5}{6} \times 10^3 = 0.833 \times 10^3$$

8. **833**

- 9)
- 8×10^8
- is _____
- $\times$
- the value of
- 3×10^9

$$\frac{8 \times 10^8}{3 \times 10^9} = \frac{8}{3} \times \frac{10^8}{10^9} = \frac{8}{3} \times 10^{-1} = 2.667 \times 10^{-1}$$

9. **0.2667**