



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

**Answers**

1)  $3 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^4$

1. \_\_\_\_\_

2)  $5 \times 10^9$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^8$

2. \_\_\_\_\_

3)  $5 \times 10^2$  is \_\_\_\_\_  $\times$  the value of  $7 \times 10^5$

3. \_\_\_\_\_

4)  $6 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^6$

4. \_\_\_\_\_

5)  $7 \times 10^4$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^2$

5. \_\_\_\_\_

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

6. \_\_\_\_\_

7)  $2 \times 10^8$  is \_\_\_\_\_  $\times$  the value of  $3 \times 10^7$

7. \_\_\_\_\_

8)  $2 \times 10^5$  is \_\_\_\_\_  $\times$  the value of  $9 \times 10^8$

8. \_\_\_\_\_

9)  $2 \times 10^7$  is \_\_\_\_\_  $\times$  the value of  $5 \times 10^5$

9. \_\_\_\_\_



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

**Answers**

- 1)
- $3 \times 10^5$
- is \_\_\_\_\_
- $\times$
- the value of
- $9 \times 10^4$

$$\frac{3 \times 10^5}{9 \times 10^4} = \frac{3}{9} \times \frac{10^5}{10^4} = \frac{1}{3} \times 10^1 = 0.333 \times 10^1$$

1. **3.33**

- 2)
- $5 \times 10^9$
- is \_\_\_\_\_
- $\times$
- the value of
- $3 \times 10^8$

$$\frac{5 \times 10^9}{3 \times 10^8} = \frac{5}{3} \times \frac{10^9}{10^8} = \frac{5}{3} \times 10^1 = 1.667 \times 10^1$$

2. **16.67**

- 3)
- $5 \times 10^2$
- is \_\_\_\_\_
- $\times$
- the value of
- $7 \times 10^5$

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

3. **0.000714**

- 4)
- $6 \times 10^8$
- is \_\_\_\_\_
- $\times$
- the value of
- $3 \times 10^6$

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

4. **200**

- 5)
- $7 \times 10^4$
- is \_\_\_\_\_
- $\times$
- the value of
- $3 \times 10^2$

$$\frac{7 \times 10^4}{3 \times 10^2} = \frac{7}{3} \times \frac{10^4}{10^2} = \frac{7}{3} \times 10^2 = 2.333 \times 10^2$$

5. **233.3**

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

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

6. **3,000**

- 7)
- $2 \times 10^8$
- is \_\_\_\_\_
- $\times$
- the value of
- $3 \times 10^7$

$$\frac{2 \times 10^8}{3 \times 10^7} = \frac{2}{3} \times \frac{10^8}{10^7} = \frac{2}{3} \times 10^1 = 0.667 \times 10^1$$

7. **6.67**

- 8)
- $2 \times 10^5$
- is \_\_\_\_\_
- $\times$
- the value of
- $9 \times 10^8$

$$\frac{2 \times 10^5}{9 \times 10^8} = \frac{2}{9} \times \frac{10^5}{10^8} = \frac{2}{9} \times 10^{-3} = 0.222 \times 10^{-3}$$

8. **0.000222**

- 9)
- $2 \times 10^7$
- is \_\_\_\_\_
- $\times$
- the value of
- $5 \times 10^5$

$$\frac{2 \times 10^7}{5 \times 10^5} = \frac{2}{5} \times \frac{10^7}{10^5} = \frac{2}{5} \times 10^2 = 0.4 \times 10^2$$

9. **40**