

Chemistry Prerequisite Algebra Practice Problems

1. $8 = x - 1$

2. $x + 1 = 3$

3. $-5 = x - 4$

4. $-6 + 5x = 4$

5. $9 + 6x = 15$

6. $5 + 7x = 54$

7. $-16 = 5x - 7x + 2$

8. $6x + 5 - 2x = 9$

9. $-x + 2 = 5x - 40$

10. $5x + 7 = 6x + 12$

11. $-3(5 + 3x) = 84$

12. $5(3x + 9) = 60$

13. $D = \frac{M}{V}$ Solve for V

14. $D = \frac{M}{V}$ Solve for M

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ANSWERS

1. $x = 9$

2. $x = 2$

3. $x = -1$

4. $x = 2$

5. $x = 1$

6. $x = 7$

7. $x = 9$

8. $x = 1$

9. $x = 7$

10. $x = -5$

11. $x = -11$

12. $x = 1$

13. $D = \frac{M}{V}$ Solve for V

14. $D = \frac{M}{V}$ Solve for M

$$\left(\frac{V}{1}\right)D = \frac{M}{V}\left(\frac{V}{1}\right) \quad [\text{The } Vs \text{ cancel out.}]$$

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$$VD = M$$

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$$\left(\frac{1}{D}\right)VD = M\left(\frac{1}{D}\right) \quad [\text{The } Ds \text{ cancel out.}]$$

$$V = \frac{M}{D}$$