

# LEVEL H

## H 1-20 : Review up to G

The review includes the four operations of positive and negative numbers/ fractions, simplifying algebraic expressions, solving linear equations.

## H 21-40 : Literal Equations

Literal equations are very similar to linear equations, except that numbers are replaced by letters. Note that all algebraic rules are preserved.

Solve the following equations for  $x$ .

$$a = b - x$$

$$x = -a + b$$

$$a = x - 3$$

$$a + 3 = x$$

$$x = a + 3$$

$$ax - c = b$$

$$ax = b + c$$

$$x = \frac{b + c}{a}$$

Reduce the answers when necessary.

$$(a + b)x = b + a$$

$$\begin{aligned} x &= \frac{b + a}{a + b} \\ &= \frac{a + b}{a + b} \\ &= 1 \end{aligned}$$

$$(a - b)x = -a + b$$

$$\begin{aligned} x &= \frac{-a + b}{a - b} \\ &= \frac{-(a - b)}{(a - b)} \\ &= -1 \end{aligned}$$

Collect all terms with  $x$  on the LHS, "take out"  $x$

$$ax = b + cx$$

$$ax - cx = b$$

$$(a - c)x = b$$

$$x = \frac{b}{a - c}$$

$$-ax = b + x$$

$$-ax - x = b$$

$$(-a - 1)x = b$$

$$x = \frac{b}{-a - 1} \left[ \frac{-b}{-a - 1} \right]$$

When there are fractions, multiply both sides of the equation by the LCM of the denominator(s).

$$\frac{x}{a} - \frac{x}{b} = c$$

$$\begin{aligned} \left( \frac{x}{a} - \frac{x}{b} \right) \times ab &= c \times ab \\ bx - ax &= abc \\ (b - a)x &= abc \\ x &= \frac{abc}{-a + b} \end{aligned}$$

$$\frac{x}{a} = b + 3x$$

$$\begin{aligned} \frac{x}{a} \times a &= (b + 3x) \times a \\ x &= ab + 3ax \\ x - 3ax &= ab \\ (1 - 3a)x &= ab \\ x &= \frac{ab}{-3a + 1} \end{aligned}$$

**Note:** Have your instructor carefully guide you through the word problems on H36-40.

## H 41-90 : Simultaneous Equations in 2 Variables

### Elimination Method

- 1) Decide which variable ( $x$  or  $y$ ) to eliminate first.
- 2) Multiply the equations so that the variable has the same coefficient in both equations.
- 3) Add/ subtract both equations to completely remove the chosen variable.
- 4) Solve for the remaining variable, and subsequently the variable that was eliminated.

$$\begin{cases} x - 2 = 3(y + 2) & \dots \textcircled{1} \\ 2y + 5 = x - 2(y - 1) & \dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \text{ becomes } x - 3y = 8 \quad \dots \textcircled{1}'$$

$$\textcircled{2} \text{ becomes } -x + 4y = -3 \quad \dots \textcircled{2}'$$

$$\textcircled{1}' + \textcircled{2}' : y = 5$$

Substituting  $y = 5$  into equation  $\textcircled{1}'$ ,

$$x = 8 + 3(5) = 23$$

$$\begin{cases} \frac{x - 3}{5} = \frac{y - 7}{2} & \dots \textcircled{1} \\ 7x = 3y & \dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \times 10 : 2x - 6 = 5y - 35$$

$$2x - 5y = -29 \quad \dots \textcircled{1}'$$

$$\textcircled{2} \text{ becomes } 7x - 3y = 0 \quad \dots \textcircled{2}'$$

$$\textcircled{1}' \times 3 : 6x - 15y = -87 \quad \dots \textcircled{3}$$

$$\textcircled{2}' \times 5 : 35x - 15y = 0 \quad \dots \textcircled{4}$$

$$\textcircled{4} - \textcircled{3} : 29x = 87$$

$$x = 3$$

Substituting  $x = 3$  into equation  $\textcircled{2}$ ,

$$3y = 7(3)$$

$$y = 7$$

### Substitution Method

Express one variable (explicitly) in terms of another. Substitute into the other equation and solve.

$$\begin{cases} y = -2x + 3 & \dots \textcircled{1} \\ 2x - 3y = 7 & \dots \textcircled{2} \end{cases}$$

Substituting  $\textcircled{1}$  into  $\textcircled{2}$ ,

$$2x - 3(-2x + 3) = 7$$

$$2x + 6x - 9 = 7$$

$$8x = 16$$

$$x = 2$$

Substituting  $x = 2$  into equation  $\textcircled{1}$ ,

$$y = -2(2) + 3$$

$$= -1$$

# Kumon Math Answers Level H

**Tobias Bleicker**



**Kumon Math Answers Level H:**

The book delves into Kumon Math Answers Level H. Kumon Math Answers Level H is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Kumon Math Answers Level H, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Kumon Math Answers Level H
- Chapter 2: Essential Elements of Kumon Math Answers Level H
- Chapter 3: Kumon Math Answers Level H in Everyday Life
- Chapter 4: Kumon Math Answers Level H in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Kumon Math Answers Level H. This chapter will explore what Kumon Math Answers Level H is, why Kumon Math Answers Level H is vital, and how to effectively learn about Kumon Math Answers Level H.

3. In chapter 2, this book will delve into the foundational concepts of Kumon Math Answers Level H. The second chapter will elucidate the essential principles that need to be understood to grasp Kumon Math Answers Level H in its entirety.

4. In chapter 3, the author will examine the practical applications of Kumon Math Answers Level H in daily life. The third chapter will showcase real-world examples of how Kumon Math Answers Level H can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Kumon Math Answers Level H in specific contexts. This chapter will explore how Kumon Math Answers Level H is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Kumon Math Answers Level H. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Kumon Math Answers Level H.

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