



# THE LIT MATH MANUAL

# **Grade 1-3**

Using this "Math Manual", you will work with your mentor to solve all sorts of problems...Let's check some of them out!



## 1. Simple Addition:

## 2. Simple Subtraction:

#### Here are some Word Problems:

• Sarah has 4 apples, and her friend gives her 3 more. How many apples does she have now? (this is an addition!)

• Tom had 12 balloons. He lost 5. How many balloons does he have left? (this is a subtraction!)

• If you have 6 oranges and you buy 7 more, then eat 3, how many oranges do you have left?

### 3. Basic Multiplication:

- 3 × 0 = \_\_\_\_
- 5 × 2 = \_\_\_
- 6 × 1 = \_\_\_\_

### **Shapes Identification:**

- Name a shape that has 4 equal sides: \_\_\_\_\_
- How many sides does a triangle have? \_\_\_\_\_



# THE LIT MATH MANUAL

# **Grade 4-6**

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- 1. Multi-Digit Addition:
- 3,476 + 2,158 = \_\_\_\_
- 5,612 + 4,789 = \_\_\_\_

- 2. Multi-Digit Subtraction:
- 8,745 3,219 = \_\_\_\_
- 6,800 4,456 = \_\_\_\_

### Let's try out some **Word Problems**:

• A bookstore sold 2,150 books in January and 1,850 books in February. How many books did they sell in total?

• A recipe requires 3/4 cup of sugar. If you only have 1/2 cup, how much more do you need?

### (Tip for fractions: find a common denominator!)

### 3. Multiplication:

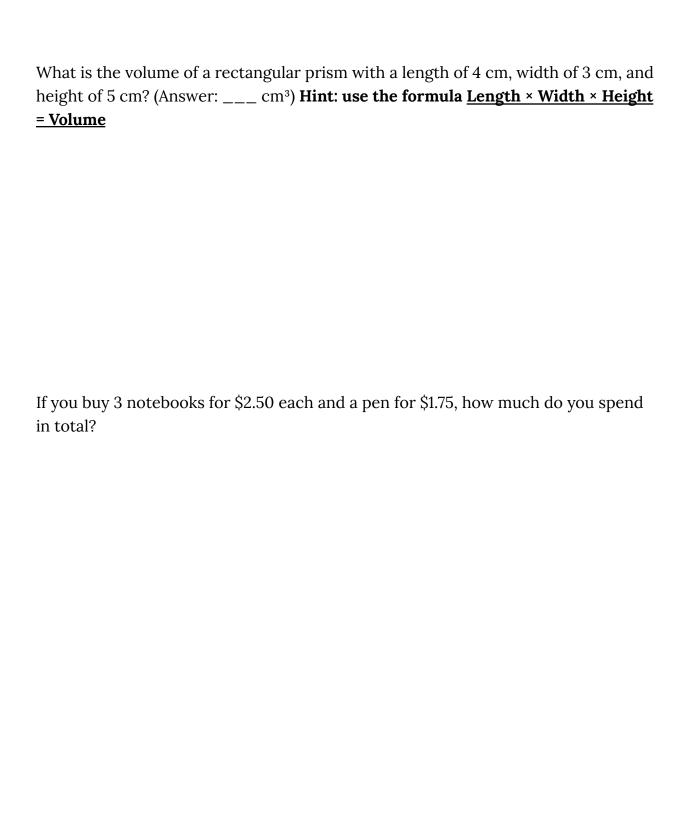
- 7 × 7 = \_\_\_\_
- 12 × 4 = \_\_\_
- 2 × 35 = \_\_\_

### 4. Addition and Subtraction:

- o 3/4 + 1/8 = \_\_\_
- o 5/6 1/3 = \_\_\_

#### Area and Volume:

What is the area of a rectangle with a length of 8 cm and a width of 5 cm? (Answer:  $\_\_\_$  cm<sup>2</sup>) **Hint: use the formula** <u>Length × Width = Area</u>





# THE LIT MATH MANUAL

# **Grade 7-8**

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#### 1. Addition and Subtraction:

○ Calculate: -7 + 3 = \_\_\_\_

○ Calculate: 5 - (-12) = \_\_\_\_

- Calculate: -4×6= \_\_\_
- o Calculate: −18÷3= \_\_\_\_

#### Let's try out some **Word Problems**:

If a number is increased by 8 and the result is 15, what is the number?

If a car travels 150 miles on 5 gallons of gas, what is the car's miles per gallon?

A map shows a scale of 1 inch to 20 miles. If two cities are 3 inches apart on the map, how far apart are they in real life?

A ribbon is % meters long. If you cut off 1/3 of a meter, how much ribbon remains?

## Algebra - Solving Equations:

- $\circ$  Solve for x: 3x+5=20
- o Solve for y: 2y-7=13

#### **Area and Perimeter:**

• What is the area of a triangle with a base of 10 cm and a height of 5 cm? (Answer: \_\_\_ cm²)

• What is the perimeter of a rectangle with a length of 12 cm and a width of 7 cm? (Answer: \_\_\_ cm)