

# Indiana ILEARN Grade 5 Math in 30 Days

*Day by Day Study Plan for Test Prep*

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# ★ Welcome, Math Superstar! ★

*You're about to go on an amazing 30-day math adventure!*

## 📖 *How This Book Works* 📖

- 📅 *One lesson each day — just 25–35 minutes!*
- 📖 *Learn the key concept at the start of each day*
- ✎ *Practice problems help you master each topic*
- 🏆 *Daily challenges push you to think harder*
- ✅ *Check off each day when you're done!*
- 📅 *All 30 days are learning days — no wasted time!*

## *Tips for Success*

- ✓ *Study at the same time each day*
- ✓ *Find a quiet place to work*
- ✓ *Have pencils and scratch paper ready*
- ✓ *Don't skip days — even 10 minutes helps!*
- ✓ *Ask a grown-up if you get stuck*

★ *Let's do this!* ★



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PREVIEW

# WEEK

1

## Place Value, Decimals & Operations

### This Week's Days

<b>1.1 Place Value and Powers of Ten</b> .....	<b>1</b>
Day 1: Place Value and Powers of Ten .....	3
<b>1.2 Divide Decimals</b> .....	<b>6</b>
Day 9: Divide Decimals .....	8



★ 1.1 Place Value and Powers of Ten ★

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DAY

1

## Place Value and Powers of Ten

📖 Today You Will Learn 📖

- ✓ Understand each digit's value based on its position
- ✓ Multiply and divide by powers of 10

📊 Your Progress: Day 1 of 30



★ Let's make today count! ★



**Place Value Relationships** **Key Concept**

Every Place Is  $10\times$  the One to Its Right In our number system, each **place** is 10 times the value of the place to its right — and  $\frac{1}{10}$  the value of the place to its left.

Hundreds	Tens	Ones	.	Tenths	Hundredths	Thousandths
100	10	1		0.1	0.01	0.001

For example, in 4,555: the 5 in the hundreds place is worth 500, the 5 in the tens place is worth 50, and 500 is 10 times 50.

**Powers of Ten** **Key Concept**

Multiplying and Dividing by 10, 100, 1,000 When you **multiply** by a power of 10, the decimal point moves **right**. When you **divide**, it moves **left**.

- $3.7 \times 10 = 37$  (point moves 1 place right)
- $3.7 \times 100 = 370$  (point moves 2 places right)
- $460 \div 10 = 46$  (point moves 1 place left)

**Exponent notation:**  $10^1 = 10$ ,  $10^2 = 100$ ,  $10^3 = 1,000$ . The exponent tells you how many zeros.



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 Powers of Ten in Action

Find  $2.45 \times 10^3$ .

**Solution:**

$10^3 = 1,000$ . Move the decimal point 3 places to the right:

$$2.45 \rightarrow 24.5 \rightarrow 245 \rightarrow 2,450$$

 **Answer:**  $2.45 \times 10^3 = 2,450$



“ Think of powers of 10 as a decimal-point slide — right to grow, left to shrink! ”

 Practice Time!

## Place Value

1. In 6,352, how many times greater is the 3 in the hundreds place than the 5 in the tens place?  
\_\_\_\_\_
2. In 0.777, the 7 in the tenths place is \_\_\_\_\_ times the value of the 7 in the hundredths place.
3. What is the value of the digit 4 in 34,891? \_\_\_\_\_
4. The 2 in 0.025 is in the \_\_\_\_\_ place.

## Powers of Ten

5.  $5.6 \times 10 =$  \_\_\_\_\_



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6.  $0.09 \times 100 =$  \_\_\_\_\_

7.  $7,200 \div 10^2 =$  \_\_\_\_\_

8.  $3.14 \times 10^3 =$  \_\_\_\_\_

 **Daily Challenge!**9. A grain of sand weighs about 0.004 grams. How much do 10,000 grains weigh? \_\_\_\_\_  **Key Takeaway:** Every place is  $10\times$  the one to its right — and powers of 10 slide the decimal point! **Day Complete! Great Job!**  I understand today's lesson     I finished the practice

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★ 1.2 Divide Decimals ★

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DAY

9

## Divide Decimals

### Today You Will Learn

- ✓ *Divide a decimal by a whole number*
- ✓ *Divide by a decimal (make the divisor whole)*

 Your Progress: Day 9 of 30

10%

★ *Let's make today count!* ★



 **Divide a Decimal by a Whole Number** **Key Concept**

Keep the Decimal Point Lined Up Divide just like whole numbers, but place the **decimal point in the quotient** directly above the decimal point in the dividend.

**Example:**  $8.4 \div 3$

$$\begin{array}{r} 2.8 \\ 3 \overline{) 8.4} \end{array}$$

3 goes into 8 twice (6), subtract to get 2. Bring down 4 to get 24. 3 goes into 24 eight times. Answer: **2.8**.

 **Divide by a Decimal** **Key Concept**

Make the Divisor a Whole Number When dividing by a decimal, multiply **both** the divisor and the dividend by the same power of 10 to make the divisor a whole number.

**Example:**  $3.6 \div 0.4$

Multiply both by 10:  $36 \div 4 = 9$ . ✓

**Example:**  $7.56 \div 0.12$

Multiply both by 100:  $756 \div 12 = 63$ . ✓



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 **Dividing by a Decimal**

Find  $4.32 \div 0.6$ .

**Solution:**

Make the divisor whole — multiply both by 10:

$$43.2 \div 6$$

6 goes into 43 seven times (42), remainder 1. Bring down 2:  $12 \div 6 = 2$ .

 **Answer:**  $4.32 \div 0.6 = 7.2$



“ Slide the decimal to chase the divisor’s point away — then divide normally! ”

 **Practice Time!**
**Divide a Decimal by a Whole Number**

1.  $9.6 \div 4 =$  \_\_\_\_\_
2.  $15.75 \div 5 =$  \_\_\_\_\_
3.  $0.84 \div 7 =$  \_\_\_\_\_
4.  $22.5 \div 9 =$  \_\_\_\_\_

**Divide by a Decimal**

5.  $4.8 \div 0.6 =$  \_\_\_\_\_
6.  $7.2 \div 0.09 =$  \_\_\_\_\_



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7.  $12.5 \div 0.5 =$  \_\_\_\_\_

8.  $3.48 \div 0.12 =$  \_\_\_\_\_

 **Daily Challenge!**

9. A rope is 18.9 meters long. It is cut into pieces that are each 0.7 meters. How many pieces are there? \_\_\_\_\_

 **Key Takeaway:** To divide by a decimal, multiply both numbers by a power of 10 to make the divisor whole!

 **Day Complete! Great Job!** 

I understand today's lesson     I finished the practice



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