

Alaska AK STAR 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!* ★



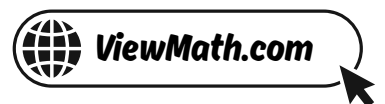
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WEEK

1

Place Value, Decimals & Operations

This Week's Days

1.1 Place Value and Powers of Ten	1
Day 1: Place Value and Powers of Ten	3
1.2 Divide Decimals	6
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.

<i>Hundreds</i>	<i>Tens</i>	<i>Ones</i>	<i>.</i>	<i>Tenths</i>	<i>Hundredths</i>	<i>Thousandths</i>
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 2.45×10^3 .

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

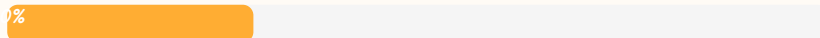
9

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



★ *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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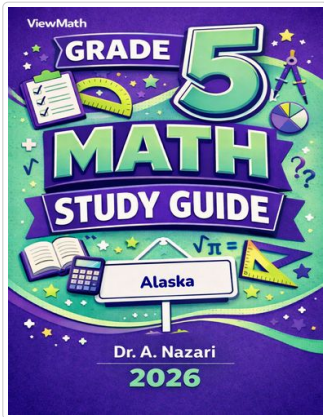


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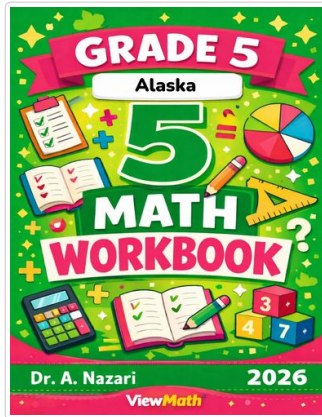
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Study Guide



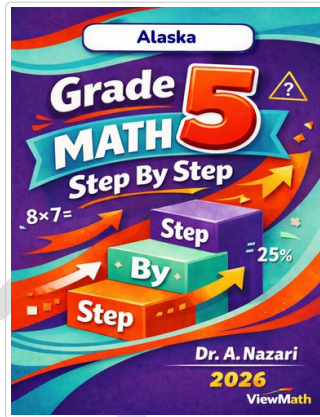
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Workbook



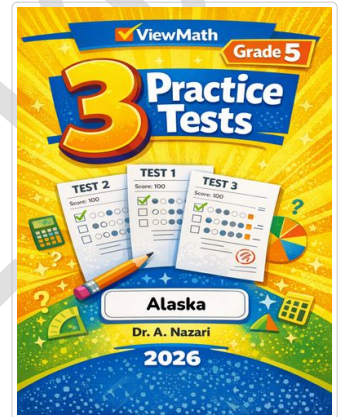
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Step-by-Step



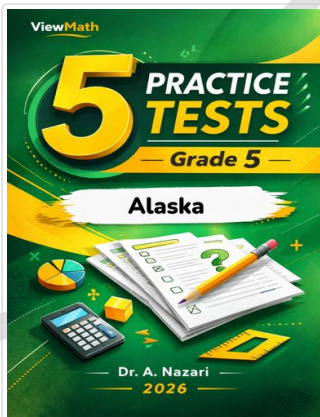
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3 Practice Tests



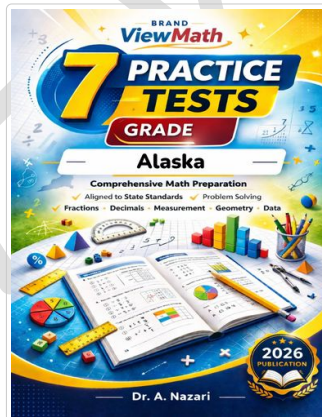
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5 Practice Tests



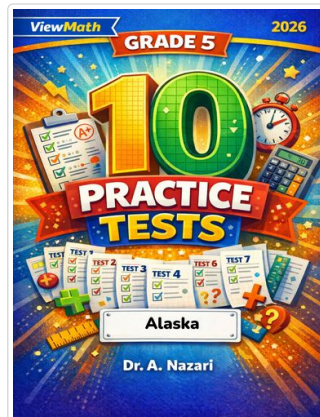
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7 Practice Tests



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10 Practice Tests



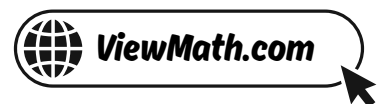
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- ✓ *Hundreds of practice problems*
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