Tennessee TCAP Grade 5 Math in 30 Days

Day by Day Study Plan for Test Prep

Dr. A. Nazari

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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!

WEEK 1

Place Value, Decimals & Operations

This Week's Days

1.1 Place Value and Powers of Ten

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!

About 20 minutes

Place Value Relationships

Key Concept

Every Place Is $\mathbf{10}\times$ *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.*

Powers of Ten in Action

Find 2.45×10^3.

Solution:

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

$$2.45 \longrightarrow 24.5 \longrightarrow 245 \longrightarrow 2{,}450$$

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. $5.6 \times 10 =$ _____

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

1.2 Divide Decimals

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

0%

Let's make today count!

About 25 minutes

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: $8.4 \div 3$

$$3 \overline{)\, 8.4}$$

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*:* $756 \div 12 = 63$. ✓

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. $7.2 \div 0.09 =$ _____

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? _____

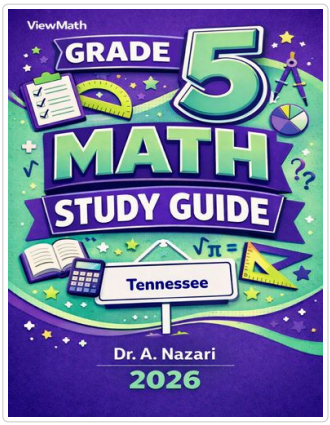
Key Takeaway: *To divide by a decimal, multiply both numbers by a power of 10 to make the divisor whole!*

Day Complete! Great Job!

☐ I understand today's lesson ☐ I finished the practice

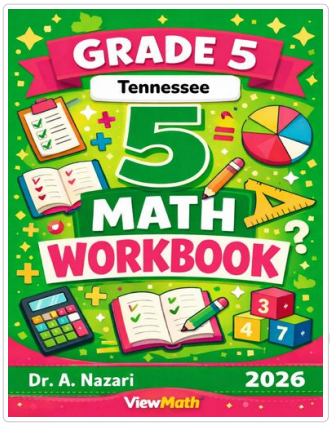
Great Job! Keep Learning with ViewMath!

*Keep up the great work! Visit **viewmath.com/TN-Grade5** for free lessons, quizzes, and more.*



Study Guide

Scan Me



Workbook

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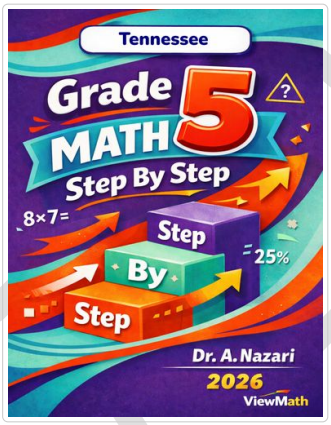

Step-by-Step

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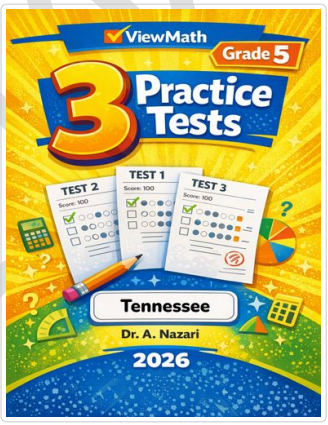

3 Practice Tests

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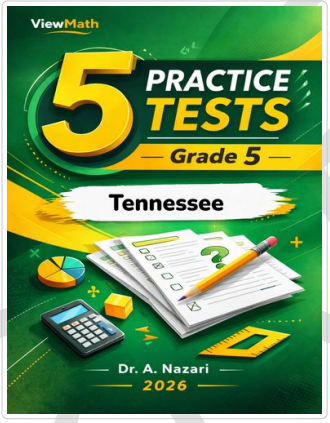

5 Practice Tests

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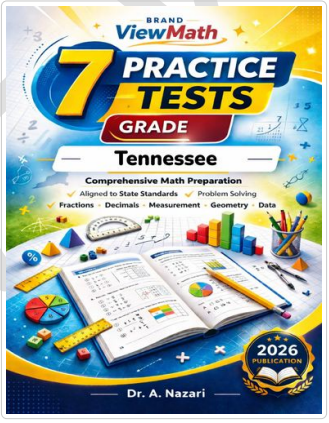

7 Practice Tests

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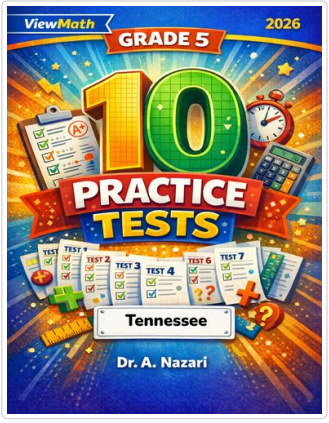

10 Practice Tests

Scan Me

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- *Colorful visuals and step-by-step examples*
- *Reference sheets and progress trackers*

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