

8

Tennessee

TCAP

GRADE 6

MATH

PRACTICE TESTS

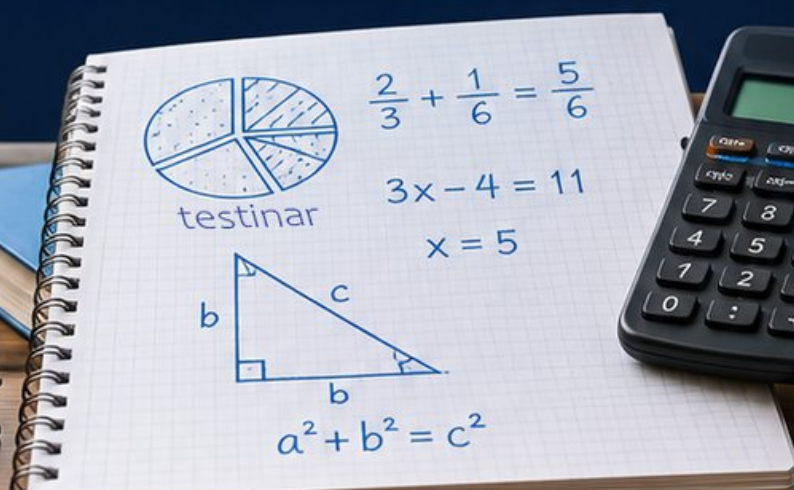
8
PRINTED
TESTS

+

2
ONLINE
TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.

Standards-Aligned *Steady Southern* Problem Solving for Comprehensive Assessment Program



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



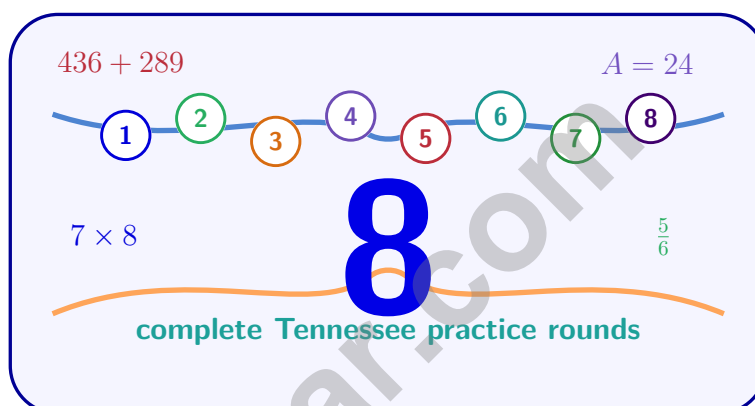
STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 Tennessee TCAP Grade 6 Math Practice Tests

Standards-Aligned Volunteer-State Math Rhythm for Tennessee Comprehensive Assessment Program



Eight complete 40-question Grade 6 practice rounds for TCAP, built for volunteer-state math rhythm with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Tennessee Math Explorer!

Eight focused rounds using volunteer-state math rhythm

This book gives you eight full Grade 6 practice tests for TCAP. Each round uses river music, mountain roads, and practical review habits as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Tennessee Practice Promise

Keep a steady rhythm: read, model, solve, and check the final note.

Read

Plan

Check

How to Use This Book

A eight-session routine for volunteer-state math rhythm

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Mark confidence.** Put a small star beside problems where your plan felt strong.
3. **Work in order.** Take one 40-question test at a time in a quiet place.
4. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.
5. **Correct actively.** Retry missed items before reading the full explanation.

Tennessee review rhythm: Practice one round, listen to what the mistakes teach, and tune up before the next test.



What Is Inside?

Eight TCAP tests, 320 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–8	Final stamina rounds for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Volunteer-state math rhythm means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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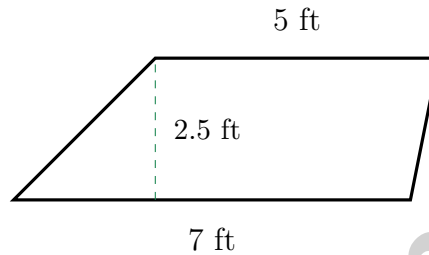
1) From the pie chart above, what is the combined allocation for Emergency and Car?

A. \$1600

C. \$1900

B. \$1800

D. \$2000



2)

What is the area of the trapezoid with bases 7 ft and 5 ft and height 2.5 ft?

A. 14.5 ft^2

C. 17.5 ft^2

B. 30 ft^2

D. 15 ft^2

3) A shipping container is 10 m long, 4 m wide, and 3 m high. How much volume does it have?

A. 17 m^3

C. 60 m^3

B. 30 m^3

D. 120 m^3

4) Write $\frac{3}{4}$ as a decimal.



5) Divide $8,456 \div 56$ and determine the remainder.

A. 151 R 0

C. 151 R 0

B. 150 R 56

D. 152 R 24

6) What is 6.3×0.9 ?

A. 5.67

C. 0.567

B. 56.7

D. 7.2

7)

Submarine Depth	Value
Sub A	-800 ft
Sub B	-450 ft
Sub C	-600 ft

Which submarine is deepest?

A. Sub A

C. Sub C

B. Sub B

D. All the same

8) Evaluate $10 - a$ when $a = 3$.

A. 7

C. 30

B. 13

D. 3

9) Solve for x : $2x = 14$

A. $x = 7$

C. $x = 16$

B. $x = 12$

D. $x = 28$



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10) Which inequality means “all numbers greater than or equal to -5 ”?

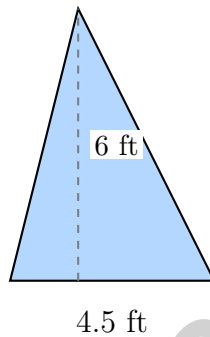
A. $x > -5$

C. $x \leq -5$

B. $x < -5$

D. $x \geq -5$

11) A banner hangs on a wall in the shape of a triangle. It has a base of 4.5 feet and a height of 6 feet. What is the area of the banner?



A. 10.5 ft^2

C. 27 ft^2

B. 13.5 ft^2

D. 54 ft^2

12) A rectangular prism is twice as long, twice as wide, and twice as tall as another rectangular prism. How many times larger is the surface area?

A. 2 times

C. 8 times

B. 16 times

D. 4 times



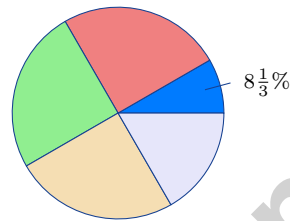
1) A family has a monthly income of \$3600. They allocate: 35% to rent, 15% to food, 10% to utilities. How much do they have remaining for other expenses?

A. \$1080

C. \$1440

B. \$1260

D. \$1800



2)

A hospital surveyed 600 patients. The circle graph shows $8\frac{1}{3}\%$ rated care as excellent. How many patients rated care as excellent?

A. 50

C. 60

B. 40

D. 75

3) Jordan's ordered scores are 70, 75, 80, 85, 88, 88, 88, 90, 92, 92. Find the median.

4) A pennant in the shape of a triangle has a base of 12 inches and an area of 60 in^2 . What is its height?

A. 5 in

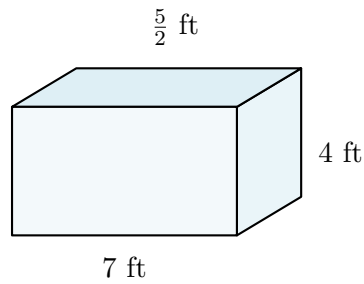
C. 15 in

B. 10 in

D. 20 in



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5)

Calculate the volume.

A. 35 ft^3

B. 56 ft^3

C. 70 ft^3

D. 140 ft^3

6) Five numbers have a mean of 20. Four of them are 15, 18, 22, 25. What is the fifth number?

A. 15

B. 18

C. 20

D. 25

7) A frequency table from a dot plot shows the most accurate interpretation would be:

Data Value	Frequency	Cumulative Frequency
5	2	2
6	4	6
7	5	11
8	3	14

A. There are 14 total data points

B. The mode is 5

C. There are 5 data values equal to 7

D. The frequency of 6 is 11



1) Place-value chart of a decimal is shown. What is the number in standard form?

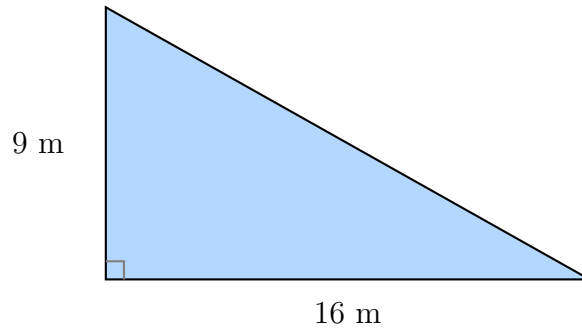
Ones	Tenths	Hundredths
5	4	8

- A. 548
- B. 0.548
- C. 54.8
- D. 5.48
- 2) Sarah has s stickers. After giving 8 to her friend, she has $s - 8$ stickers left. What does the variable s represent?
- A. The number of stickers her friend has
- B. The number of stickers Sarah has left
- C. The total number of stickers Sarah had at first
- D. The number of stickers she gave away
- 3) An elevator is at floor 3. It descends 10 floors to reach a basement level. Write the integer that represents the basement floor's position.

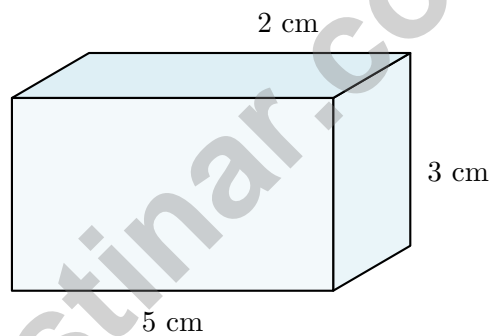


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& answers

- 4) A triangle has vertices forming a right angle. If the two legs are 9 m and 16 m, what is the area?



- A. 25 m^2 C. 144 m^2
 B. 72 m^2 D. 288 m^2



- 5) What is the volume of the rectangular prism?

- A. 10 cm^3 C. 30 cm^3
 B. 15 cm^3 D. 50 cm^3



Tennessee TCAP Practice Test Answer Keys

How to use this Tennessee TCAP answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to volunteer-state math rhythm
3. rework the problem before reading the full explanation, using this reminder:
Keep a steady rhythm: read, model, solve, and check the final note.

A calm Tennessee correction routine turns every missed item into useful practice. Practice one round, listen to what the mistakes teach, and tune up before the next test.



Scan me!
For more practice
& answers

Tennessee Practice Test Answers and Explanations

Review the eight printed TCAP tests with steady, tuned, and ready for the next round habits.

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(6.SP.A.1)** Emergency and Car: $(22\% + 16\%) = 38\%$ of $\$5000 = 0.38 \times 5000 = \1900 .
- 2) **Choice D is correct.** **(6.G.A.1)** Area = $\frac{1}{2}(7 + 5) \times 2.5 = \frac{1}{2}(12)(2.5) = 15 \text{ ft}^2$.
- 3) **Choice D is correct.** **(6.G.A.2)** $V = 10 \times 4 \times 3 = 40 \times 3 = 120 \text{ m}^3$.
- 4) **The correct answer is 0.75.** **(6.EE.B.8)** $3 \div 4 = 0.75$.
- 5) **Choice C is correct.** **(6.NS.B.2)** $8,456 \div 56 = 151$ with no remainder. Check: $56 \times 151 = 8,456$.
- 6) **Choice A is correct.** **(6.NS.B.3)** Multiply: $63 \times 9 = 567$. With $1 + 1 = 2$ decimal places total, the answer is 5.67.
- 7) **Choice A is correct.** **(6.NS.C.7)** The most negative value is the deepest. $-800 < -600 < -450$, so Sub A at -800 ft is deepest.
- 8) **Choice A is correct.** **(6.EE.A.2)** Substitute $a = 3$: $10 - 3 = 7$.
- 9) **Choice A is correct.** **(6.EE.B.5)** Divide both sides by 2: $x = 14 \div 2 = 7$.
- 10) **Choice D is correct.** **(6.EE.B.8)** "Greater than or equal to" uses the \geq symbol, so the inequality is $x \geq -5$.
- 11) **Choice B is correct.** **(6.G.A.1)** $A = \frac{1}{2} \times 4.5 \times 6 = \frac{1}{2} \times 27 = 13.5 \text{ ft}^2$.
- 12) **Choice D is correct.** **(6.G.A.4)** When all linear dimensions are scaled by a factor of 2, surface area scales by a factor of $2^2 = 4$.
- 13) **Choice A is correct.** **(6.NS.C.8)** Reflection over the x -axis keeps the x -coordinate unchanged and negates the y -coordinate.
- 14) **The correct answer is 60.** **(6.EE.C.9)** The speed is $\frac{\text{distance}}{\text{time}}$. From the table, $\frac{60 \text{ mi}}{1 \text{ h}} = 60 \text{ mph}$; or $\frac{180 \text{ mi}}{3 \text{ h}} = 60 \text{ mph}$. The constant rate of change is 60 miles per hour.
- 15) **Choice C is correct.** **(6.RP.A.1)** The student calculated $\pi r \approx 3.14 \times 4 = 12.56$ (which is the circumference formula). The correct area is $\pi r^2 \approx 3.14 \times 16 = 50.24 \text{ m}^2$.
- 16) **Choice D is correct.** **(6.SP.A.3)** With 7 values, the median is the 4th value when ordered: 0.5, 0.8, 1.2, 1.5, 2.5, 2.8, 3.1. Median is 1.5.
- 17) **Choice D is correct.** **(6.SP.A.3)** The lower half of the ordered data is 2, 3, 4. The median of the lower half (lower quartile, Q1) is 3.
- 18) **Choice C is correct.** **(6.SP.B.4)** With 2-digit stem: stem 11 (112, 115, 118) and stem 12 (121, 124, 125). Stem 12 has 3 leaves: 1, 4, 5.
- 19) **Choice C is correct.** **(6.RP.A.3)** Art: girls (20) > boys (15). Music: girls (18) > boys (12). Sports: boys (25) > girls (22). Girls have more members in 2 clubs (art and music).
- 20) **Choice C is correct.** **(6.RP.A.1)** Divide cost by pounds: $3 \div 2 = 1.50$ dollars per pound.
- 21) **The correct answer is A uses the division method; E verifies the answer..** **(6.NS.A.1)** A correctly divides: $4 \div \frac{1}{3} = 12$ bottles. E checks: $12 \times \frac{1}{3} = 4$ gallons. B multiplies but gets total juice, not bottle count. C divides backwards. D is conceptually sound but cumbersome.
- 22) **Choice D is correct.** **(6.RP.A.3)** The unit rate is the change in goals divided by the change in hours: $\frac{15-6}{5-2} = \frac{9}{3} = 3$ goals per hour.
- 23) **Choice B is correct.** **(6.RP.A.3)** Convert 2 quarts to pints: $2 \times 2 = 4$ pints. Total: $6 + 4 = 10$ pints.
- 24) **Choice C is correct.** **(6.RP.A.3)** The constant speed is $\frac{45 \text{ miles}}{3 \text{ hours}} = 15 \text{ mph}$. In 5 hours: distance = $15 \times 5 = 75$ miles.
- 25) **Choice A is correct.** **(6.EE.C.9)** Net change is gain plus loss: $12 + (-8) = 4$ yards gained.
- 26) **Choice D is correct.** **(6.RP.A.1)** A ratio is in simplest form when the two numbers have no common factor greater than 1. The numbers 5 and 7 share no common factor except 1, so $5 : 7$ is already simplified.



From Your Math Family

Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 8 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Family

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.



PERFECT FOR

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence



**PRACTICE TODAY.
SUCCEED TOMORROW.**

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Understand Key Concepts

Reinforce important math ideas aligned with standards.



Test Confidence

Get familiar with test formats and improve accuracy.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ And More!



2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS