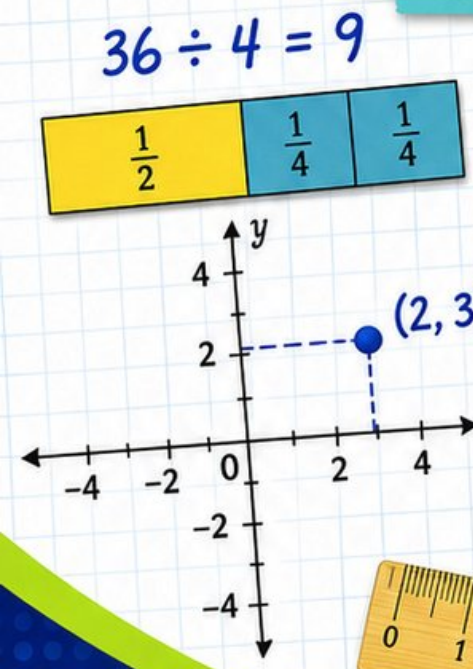
FULL-LENGTH

8 Texas STAAR

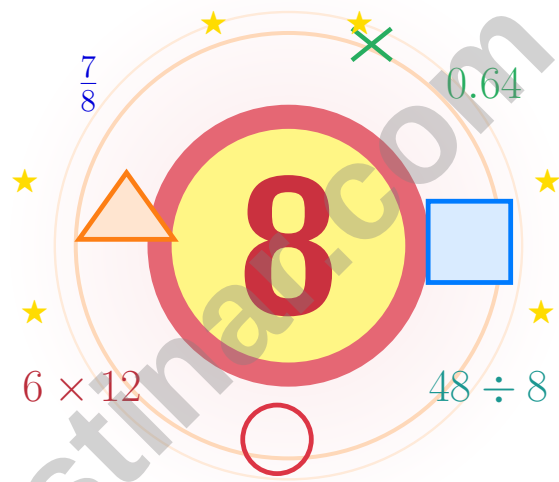
GRADE 5 MATH PRACTICE TESTS

Mixed Practice Questions with Answer Key for Students, Parents, and Teachers



8 Texas STAAR Grade 5 Math Practice Tests

A eight-step adventure for Texas Grade 5 thinkers



Eight full tests, a focused quick review, and helpful support that turns Grade 5 practice in The Lone Star State into steady, confident growth from page one to the final check.

Jay Daie and Reza Nazari

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Texas Mathematicians, Lace Up

A eight-step trail built for steady, brave thinking

An Invitation to Grade 5 in Texas

This practice book is your steady companion for eight tests, not a place to be perfect. Math is like a Texas sky – huge, wide, and full of room for one careful thought after another.

Use these eight tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up across seven rounds.

Notice

Look closely at what the problem says, shows, and asks.

Try

Pick a plan and step through it carefully.

Grow

Use every correction as a clue for what to master next.

A strong habit for Texas mathematicians: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

A Simple Path Through Eight Tests

A simple routine that turns practice into progress

Step 1: Step 1

Warm up with a quick review.
Spend a few minutes waking up your memory before the test begins.

Step 2: Step 2

Take one full practice test.
Work in a calm spot and focus on careful thinking before speed.

Step 3: Step 3

Check your work honestly.
Circle missed questions and notice which topics keep showing up.

Step 4: Step 4

Fix, reflect, and try again.
Read the explanation, repair the work, and bring that lesson into the next test.

A Good 8-Week Texas Rhythm

Week 1	Take Test 1 like the first mile of a long ranch trail.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and lift fraction and decimal work.
Week 4	Take Test 4 and pay close attention to labels and units.
Week 5	Take Test 5 and compare your habits with your first test.
Week 6	Take Test 6 and practice staying calm during tricky questions.
Week 7	Take Test 7 with calm, careful, confident work.
Week 8	Take Test 8 and finish the journey with calm, careful, confident work.

Table of Contents

Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle	$P = 2l + 2w$ or $P = 2(l + w)$
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Volume of Rectangular Prism	$V = l \times w \times h$

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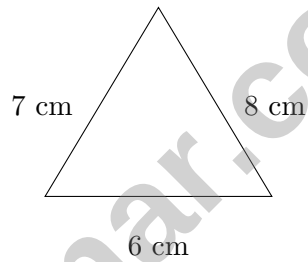
1) A wall is $\frac{5}{6}$ meter wide. A painter paints $\frac{3}{5}$ of the wall. How wide is the painted section? Give the answer in simplest form.

☐ A. $\frac{8}{11}$ meter
☐ B. $\frac{15}{11}$ meter
☐ C. $\frac{2}{3}$ meter
☐ D. $\frac{1}{2}$ meter

2) A bookshelf space measures 8 inches long, 5 inches wide, and 6 inches tall. What is its volume?

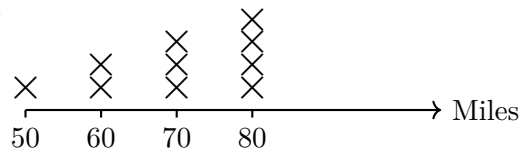
☐ A. 40 cubic inches
☐ B. 30 cubic inches
☐ C. 48 cubic inches
☐ D. 240 cubic inches

3) Look at the triangle with side lengths labeled. What type is it based on its sides?



☐ A. Equilateral
☐ B. Isosceles
☐ C. Scalene
☐ D. Right

4) The line plot shows the number of miles traveled by delivery drivers:



Which distance was traveled most frequently?

☐ A. 50 miles
☐ B. 60 miles
☐ C. 70 miles
☐ D. 80 miles

5) Which expression is $\frac{1}{5}$ of $(100 - 25)$?

☐ A. $(100 - 25) \times 5$
☐ B. $(100 - 25) \div 5$
☐ C. $100 - (25 \div 5)$
☐ D. $5 \div (100 - 25)$

6)

Property	Square	Rectangle	Rhombus	Parallelogram (not rectangle or rhombus)
Two pairs parallel	✓	✓	✓	✓
All sides equal	✓		✓	
All angles 90°	✓	✓		

Which shape has two pairs of parallel sides but NOT all angles equal to 90° and NOT all sides equal?

☐ A. Square
☐ B. Rectangle
☐ C. Rhombus
☐ D. Parallelogram (not rectangle or rhombus)

7) Use the place-value chart to order these decimals:

Ones	Tenths	Hundredths	Thousandths	Value
1	2	3	0	1.230
1	2	0	3	1.203
1	2	3	1	1.231

Which is the least?

☐ A. 1.230
☐ B. 1.203
☐ C. 1.231
☐ D. All equal

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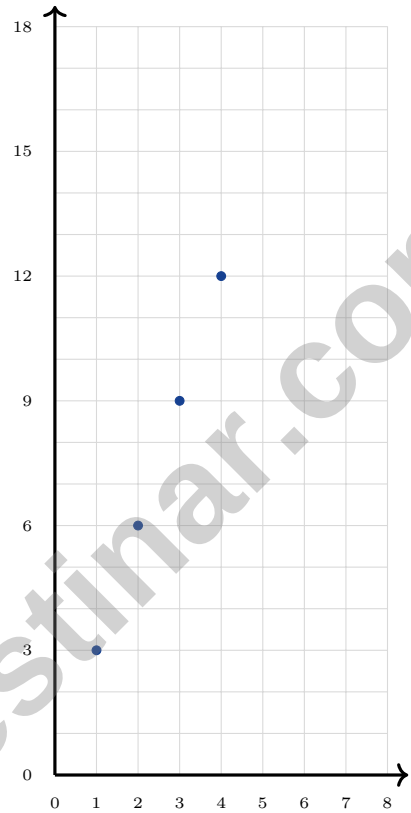
1) Which expression is equivalent to $\frac{2,800}{10^1}$?

☐ A. $2,800 \div 1$
☐ B. $2,800 \div 1,000$
☐ C. $2,800 \div 100$
☐ D. $2,800 \div 10$

2) Which of the following points has a second coordinate that is 3 times the first coordinate?



☐ A. (2, 5)
☐ B. (3, 9)
☐ C. (4, 10)
☐ D. (5, 16)

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1) A student buys a notebook for \$3.68 and a folder for \$2.47. What is the total cost?

☐ A. \$5.05
☐ B. \$6.05
☐ C. \$6.15
☐ D. \$5.15

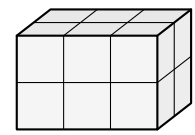
2) A scientist measures liquid volumes:

Container	Volume (mL)
A	350
B	480
C	420

What is the total volume in liters?
Use: 1 liter = 1,000 mL

☐ A. 1.05 liters
☐ B. 1.15 liters
☐ C. 1.25 liters
☐ D. 1.35 liters

3) Count the unit cubes layer by layer. The first layer has 6 cubes, the second layer has 6 cubes. How many unit cubes are there in total?



☐ A. 6 unit cubes
☐ B. 12 unit cubes
☐ C. 10 unit cubes
☐ D. 15 unit cubes

4) A rectangular prism has dimensions 3 by 1 by 2 unit cubes. What is its volume?

Rectangular prism
$3 \times 1 \times 2$ unit cubes

☐ A. 4 cubic units
☐ B. 12 cubic units
☐ C. 8 cubic units
☐ D. 6 cubic units

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1) A store stacks 5 identical rectangular boxes. Each box measures 4 centimeters by 4 centimeters by 2 centimeters. What is the total volume of all the boxes?

☐ A. 32 cubic centimeters
☐ B. 160 cubic centimeters
☐ C. 37 cubic centimeters
☐ D. 192 cubic centimeters

2) A polygon has 6 sides, 6 vertices, and all sides and angles equal. What name can be used for this shape?

Record your answer in the space provided.

3) Find: 507×64.

Record your answer in the space provided.

4) A table shows $(1, 4), (2, 7), (3, 10), (4, ?)$. If the pattern continues, find the missing y:

☐ A. 12
☐ B. 15
☐ C. 14
☐ D. 13

5) A student found a rock that weighs 1.75 kilograms. A second rock weighs 1,500 grams. Which rock is heavier?

☐ A. The first rock (1.75 kg)
☐ B. The second rock (1,500 g)
☐ C. They weigh the same
☐ D. Cannot determine

Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice D is correct.** 5.3(A) $\frac{3}{5} \times \frac{5}{6} = \frac{15}{30}$, which simplifies to $\frac{1}{2}$ meter.
2) **Choice D is correct.** 5.4(G) Use the rectangular-prism volume formula: $8 \times 5 \times 6 = 240$. So the volume is 240 cubic inches.
3) **Choice C is correct.** 5.5 The three sides are 6 cm, 7 cm, and 8 cm, all different lengths. This is a scalene triangle.
4) **Choice D is correct.** 5.9(A) Count at each value: 50 miles (1 mark), 60 miles (2 marks), 70 miles (3 marks), 80 miles (4 marks). The most common value is 80 miles with 4 occurrences.
5) **Choice B is correct.** 5.4(F) One fifth of an amount means split it into 5 equal parts. So one fifth of $(100 - 25)$ is $(100 - 25) \div 5$.
6) **Choice D is correct.** 5.5 This parallelogram has two pairs of parallel sides, but it does not have all right angles like a rectangle and does not have all sides equal like a rhombus.
7) **Choice B is correct.** 5.2(B) Ones and tenths are the same. Compare hundredths: 1.203 has 0, while the others have 3. So 1.203 is least.
8) **Choice B is correct.** 5.3(I) $30 \times \frac{2}{3} = 20$ feet. Since $\frac{2}{3} < 1$, the painted length is less than 30 feet.
9) **Choice D is correct.** 5.4(F) Work from the inside out: $3 \times 5 = 15$, then $25 - 15 = 10$, then $10 \times 2 = 20$, and finally $20 + 3 = 23$.
10) **Choice A is correct.** 5.4(F) Multiplying by a power of 10 shifts the value to a larger place. $10^1 = 10$, so $5 \times 10 = 50$. This confirms the answer.
11) **Choice C is correct.** 5.6(B) Volume $= 16 \times 12 \times 8 = 192 \times 8 = 1536$ in^3.
12) **Choice A is correct.** 5.6(B) Move the decimal 1 place right: $0.08 \times 10 = 0.8$.
13) **Choice B is correct.** 5.6(B) Add: $\frac{5}{6} + 2\frac{1}{6} = 2\frac{6}{6} = 3$.
14) **Choice A is correct.** 5.8(B) Index 1: 2. Index 2: $2 + 3 = 5$. Index 3: $5 + 3 = 8$. Index 4: $8 + 3 = 11$.
15) **Choice B is correct.** 5.6(B) Dividing by 100 makes the number one-hundredth as large. Move the decimal two places left: $48 \rightarrow 0.48$.
16) **Choice B is correct.** 5.6(B) LCD of 8 and 12 is 24. $\frac{1}{8} = \frac{3}{24}$ and $\frac{3}{12} = \frac{6}{24}$.
17) **Choice C is correct.** 5.3(H) $7 \times 10^5 = 7 \times 100000 = 700000$ meters.
18) **Choices A, B are correct.** 5.6(B) The base area is $4 \times 3 = 12$ square units. Then $48 \div 12 = 4$, so the height is 4 units. C and D come from mixing up the height with the volume.
19) **Choice B is correct.** 5.7 Total rice: $400 + 400 = 800$ g. Convert: $800 \div 1000 = 0.8$ kg.
20) **Choice D is correct.** 5.3(J) Use total amount divided by the size of one piece. The equation is $4 \div \frac{1}{3} = n$.
21) **Choice B is correct.** 5.3(I) Each N value is 4 more than the matching M value: $2 + 4 = 6$, $4 + 4 = 8$, $6 + 4 = 10$, and $8 + 4 = 12$.
22) **Choice A is correct.** 5.7 Since 1 gallon = 16 cups, multiply 2 by 16: $2 \times 16 = 32$ cups.
23) **Choice D is correct.** 5.6(B) $\frac{1}{2} \times \frac{4}{5} = \frac{4}{10} = \frac{2}{5} = \frac{8}{20}$. $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2} = \frac{10}{20}$. Since $\frac{10}{20} > \frac{8}{20}$, the second is larger.
24) **The correct answer is 18.** 5.3(E) $36 \times 5 = 180$. Place the decimal one digit from the right: $18.0 = 18$.
25) **Choice B is correct.** 5.3(E) Each whole contains 8 pieces of size $\frac{1}{8}$. With 2 wholes, there are $2 \times 8 = 16$ pieces.
26) **Choice C is correct.** 5.3(J) $4 \div \frac{1}{5} = 4 \times 5 = 20$. We can make 20 packages.
27) **Choice D is correct.** 5.3(J) $\frac{7}{8} \times 2 = \frac{14}{8} = 1\frac{6}{8} = 1\frac{3}{4}$ (simplified).
28) **Choice A is correct.** 5.3(J) Work one prism at a time: $5 \times 3 \times 2 = 30$, $3 \times 3 \times 4 = 36$, and $2 \times 2 \times 2 = 8$. Add the non-overlapping volumes: $30 + 36 + 8 = 74$ cubic inches.
29) **Choice A is correct.** 5.3(I) $2\frac{1}{4} = \frac{9}{4}$ and $2\frac{2}{3} = \frac{8}{3}$. Multiply: $\frac{9}{4} \times \frac{8}{3} = \frac{72}{12} = 6$.
30) **The correct answer is 0.321.** 5.6(B) Move the decimal point two places left: $32.1 \rightarrow 0.321$.

Dear Math Champion,

◇ Look at what you did. 8 full practice tests. Hundreds of math problems. Every one of them strengthened your mind. You walked into this prep series as a learner, and you are walking out as a math athlete who knows how to compete. ◇

⋆ **What champions know:** talent is helpful, but training is everything. You trained. You showed up. You did the work. That is why your skills are sharp today. ⋆

Champion's Skill Card

- **Focus:** MAXED OUT! You can lock onto a problem and stay there.
- **Speed:** CALIBRATED! You move quickly without rushing.
- **Accuracy:** HIGH! You catch your own mistakes.
- **Mindset:** CHAMPION-LEVEL! You believe in your skills.

Final champion tip: on test day, walk in like you have trained for it—because you have. Sit down. Breathe. Read carefully. Work steadily. Check confidently. You will be amazed at how prepared you actually are.

If you want to share a proud moment or ask a question, please email me at jay@testinar.com. I'd love to hear from you!

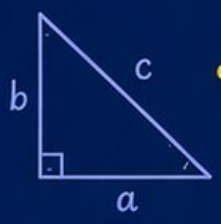
Jay Daie

Your Math Coaches (Champion-in-Training)

$45 \div 5 = ?$

$\frac{3}{5} + \frac{1}{10} = ?$

PRACTICE TODAY.
ACHIEVE TOMORROW!



This book includes **8** full-length Grade 5 math practice tests to help students master essential skills, build confidence, and achieve success. Each test is carefully designed to reflect real math standards and cover a variety of question types with detailed answer explanations.

$3^2 + 4^2 = 25$

$7x - 4 = 17$

$1\frac{1}{2} + 2\frac{1}{3} = ?$

8 FULL-LENGTH MATH PRACTICE TESTS

REALISTIC PRACTICE
Tests mirror Grade 5 math standards and real assessment formats.

ANSWER KEY INCLUDED
Detailed answer explanations help students understand and learn.

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Strengthens problem-solving abilities and reinforces key math concepts.

IMPROVE & TRACK PROGRESS
Identify strengths and focus on areas that need improvement.

ACHIEVE SUCCESS
Boosts test readiness and helps students achieve their best results.

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- Measurement & Data
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