

FULL-LENGTH

8

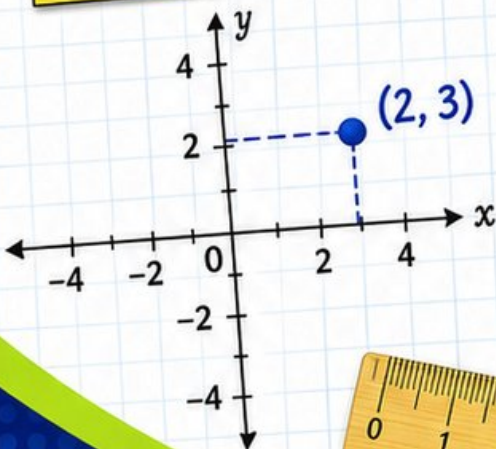
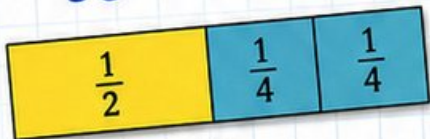
Utah
RISE

GRADE 5

MATH PRACTICE TESTS

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

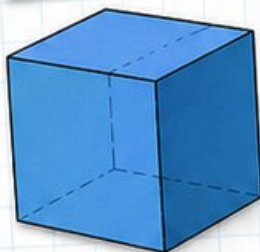
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

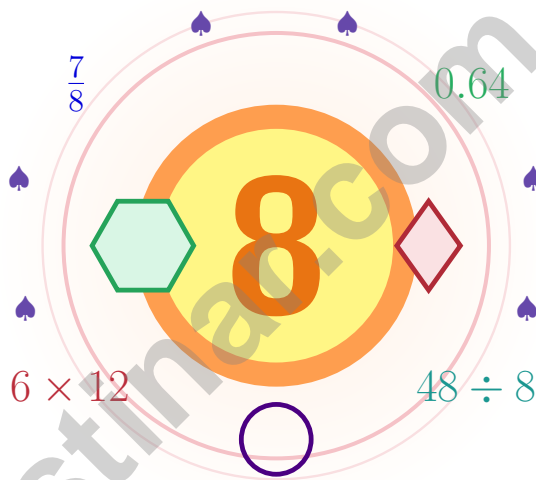
$$7 \times (12 - 5) = 49$$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



8 Utah RISE Grade 5 Math Practice Tests

Eight full tests and a coach's voice on every page



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

Jay Daie and Reza Nazari



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Eight-Step Math Adventure, Utah

Seven chances to grow your math mind one careful step at a time

Utah Grade 5: This Trail Is for You

This practice book is your steady companion for eight tests, not a place to be perfect. Math is like a beehive – one careful step alone is small, but together they build something amazing.

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.

Read

Read every word twice and underline what is asked.

Solve

Choose the cleanest method and show your steps.

Reflect

Look back to find what worked and what to fix.

A strong habit for Utah 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.

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Seven Steps, One Routine

A simple routine that turns practice into progress

Step 1: Power Up

Sharpen your math brain with the quick review.

Spend a few minutes waking up your memory before the test begins.

Step 2: Trail Run

Take a full practice test in a quiet spot.

Work in a calm spot and focus on careful thinking before speed.

Step 3: Debrief

Score honestly and circle missed questions.

Circle missed questions and notice which topics keep showing up.

Step 4: Repair

Fix the missed work and lock the lesson in.

Read the explanation, repair the work, and bring that lesson into the next test.



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Grade 5 Mathematics Reference Materials

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Area of Rectangle $A = l \times w$

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Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

Metric

1 meter (m) = 100 centimeters (cm)

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1) What is $\frac{3}{4} \times \frac{2}{5}$ in simplest form?

A. $\frac{7}{20}$

B. $\frac{3}{10}$

C. $\frac{5}{9}$

D. $\frac{6}{9}$

2) Add: $\frac{1}{9} + \frac{1}{6}$

A. $\frac{2}{15}$

B. $\frac{5}{18}$

C. $\frac{2}{54}$

D. $\frac{1}{15}$

3) Six students each walk $\frac{1}{2}$ mile during recess. How many miles do they walk in all?

A. $\frac{5}{2}$

B. 3

C. $\frac{1}{12}$

D. $\frac{12}{6}$

4) An error: A student added $\frac{1}{4} + \frac{2}{3}$ and got $\frac{3}{7}$. What was the mistake?

A. Added the numerators and denominators instead of using a common denominator

B. Subtracted instead of added

C. Did not simplify correctly

D. Multiplied by the same number twice

5) Compare $\frac{3}{2} \times 18$ to 18. Which is true?

A. $\frac{3}{2} \times 18 < 18$

B. $\frac{3}{2} \times 18 = 18$

C. $\frac{3}{2} \times 18 > 18$

D. Cannot be determined

6) Two related patterns are shown.

Step	1	2	3	4
Pattern A	15	18	21	24
Pattern B	30	36	42	48

Which relationship is true for each pair of corresponding terms?

A. Pattern B is 15 more than Pattern A.

C. Pattern B is 3 less than Pattern A.

B. Pattern B is twice Pattern A.

D. Pattern B is the same as Pattern A.



7) In the number 6.482, what is the place value of the digit 8?

6.482

- A. Tenths C. Thousandths
 B. Hundredths D. Ones

8) Subtract: $7\frac{4}{6} - 3\frac{2}{6}$

- A. $4\frac{2}{6}$ C. $3\frac{4}{6}$
 B. $4\frac{3}{6}$ D. $4\frac{5}{6}$

9) How many zeros are in the product $2,000 \times 50$?

- A. 3 C. 5
 B. 4 D. 6

10) Complete: $3.2 \times ? = 320$.

- A. 10 C. 1,000
 B. 10,000 D. 100

11) A rectangular swimming pool holds 18,000 cubic feet of water. The length is 60 feet and the width is 30 feet. What is the depth of the pool?

- A. 8 feet C. 12 feet
 B. 10 feet D. 15 feet



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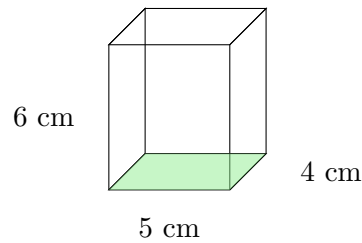
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1)

What is the volume?

A. 30 cm^3

C. 120 cm^3

B. 15 cm^3

D. 24 cm^3

2) A juice box is shaped like a rectangular prism with volume 200 cm^3 . The base is $10 \text{ cm} \times 5 \text{ cm}$. What is its height?

A. 3 cm

C. 5 cm

B. 6 cm

D. 4 cm

3) Pattern A: 2, 4, 6, 8, 10. Pattern B: 6, 12, 18, 24, 30. Both patterns follow a rule. Write the rule for Pattern B in terms of Pattern A.

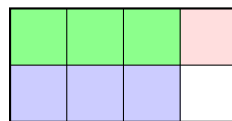
A. Pattern B is 3 more than Pattern A

C. Pattern B is 5 less than Pattern A

B. Pattern B is 5 times Pattern A

D. Pattern B is 3 times Pattern A

4) Use the area model below to find $\frac{3}{4} \times \frac{1}{2}$.



Record your answer in the space provided.



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1) What is $2.13 \times 10^?$

A. 2.13

C. 21.3

B. 213

D. 2130

2) Two rectangular prisms have the same volume of 100 cubic inches. Prism X has dimensions $5 \times 4 \times 5$. Which dimensions could be Prism Y?

A. $10 \times 5 \times 2$

C. $5 \times 5 \times 3$

B. $10 \times 2 \times 4$

D. $2 \times 2 \times 20$

3) Write 93×1000 using an exponent. Which is equivalent?

A. 93×10^1

C. 93×10^3

B. 93×10^2

D. 93×10^4

4) In the number 87.456, what is the value of the digit in the tenths place?

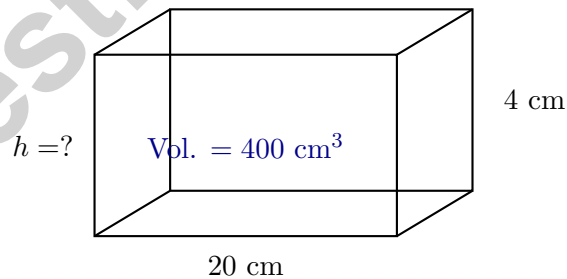
A. 4

C. 0.004

B. 0.04

D. 0.4

5) Find the height of this rectangular prism.



A. 4 cm

C. 6 cm

B. 5 cm

D. 7 cm



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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** (5.NF.4) $\frac{3}{4} \times \frac{2}{5} = \frac{6}{20} = \frac{3}{10}$ (divide by 2).
- 2) **Choice B is correct.** (5.NF.4) $\text{LCM}(9,6) = 18$. $\frac{1}{9} = \frac{2}{18}$ and $\frac{1}{6} = \frac{3}{18}$. $\frac{2}{18} + \frac{3}{18} = \frac{5}{18}$.
- 3) **Choice B is correct.** (5.NF.1) The six jumps each move $\frac{1}{2}$. Counting them lands at 3, so $6 \times \frac{1}{2} = \frac{6}{2} = 3$.
- 4) **Choice A is correct.** (5.NF.2) The fractions need a common denominator: $\frac{1}{4} = \frac{3}{12}$ and $\frac{2}{3} = \frac{8}{12}$, so the correct sum is $\frac{11}{12}$. The student incorrectly added both numerators and denominators.
- 5) **Choice C is correct.** (5.NF.4) $\frac{3}{2} > 1$, so the product is greater than 18.
- 6) **Choice B is correct.** (5.OA.3) Compare corresponding terms: $30 = 2 \times 15$, $36 = 2 \times 18$, $42 = 2 \times 21$, and $48 = 2 \times 24$.
- 7) **Choice B is correct.** (5.NBT.3) The digit 8 is in the hundredths place (third column from the left, or second position after the decimal point).
- 8) **Choice A is correct.** (5.NBT.3) $7 - 3 = 4$ and $\frac{4}{6} - \frac{2}{6} = \frac{2}{6}$. Result: $4\frac{2}{6}$.
- 9) **Choice C is correct.** (5.NF.1) The nonzero parts make $2 \times 5 = 10$, which contributes one trailing zero. The factors already have four zeros, so the product has 5 zeros.
- 10) **Choice D is correct.** (5.NBT.2) Multiplying 3.2 by 100 moves the decimal two places right, giving 320.
- 11) **Choice B is correct.** (5.NBT.2) The base area is $60 \times 30 = 1,800$ square feet. Since $18,000 \div 1,800 = 10$, the depth is 10 feet.
- 12) **Choice D is correct.** (5.MD.5) Ribbon per project = $\frac{3}{8} \times \frac{2}{3} = \frac{6}{24} = \frac{1}{4}$ meter.
- 13) **Choice A is correct.** (5.NF.2) LCD of 8 and 6 is 24. $\frac{3}{8} = \frac{9}{24}$ and $\frac{2}{6} = \frac{8}{24}$.
- 14) **Choice B is correct.** (5.MD.2) Count X marks above $\frac{3}{8}$ on the plot. There are 2 X marks.
- 15) **Choice C is correct.** (5.NBT.4) For 4.251: thousandths = $1 < 5$, keep hundredths $5 \rightarrow 4.25$. For 4.259: thousandths = $9 \geq 5$, round hundredths 5 up to 6 $\rightarrow 4.26$.
- 16) **Choice B is correct.** (5.G.3) A rectangle is a quadrilateral with four right angles. It also has two pairs of parallel sides, so choices A and D are not true.
- 17) **Choice A is correct.** (5.MD.4) $V = 11 \times 3 \times 8 = 33 \times 8 = 264 \text{ ft}^3$.
- 18) **Choices A, B are correct.** (5.NBT.7) Align decimals and subtract. A and B are true. C should be 0.70, and D should be 2.97.
- 19) **Choice B is correct.** (5.NBT.7) The area model breaks into four parts: $3 \times 2 = 6$, $3 \times 0.5 = 1.5$, $0.2 \times 2 = 0.4$, $0.2 \times 0.5 = 0.1$. Total: $6 + 1.5 + 0.4 + 0.1 = 8$.
- 20) **Choice D is correct.** (5.MD.5) Add all costs: $45.75 + 32.50 + 18.25 + 12.00 = 108.50$. The total is \$108.50.
- 21) **Choice C is correct.** (5.MD.3) The base area is 24 square inches and the height is 3 inches, so the prism has 3 layers of 24 cubic inches. $24 \times 3 = 72$ cubic inches.
- 22) **Choice A is correct.** (5.OA.1) Find the grouped and multiplication parts first: $7 \times 3 = 21$, $6 - 4 = 2$, and $2 \times 2 = 4$. Then $21 - 4 = 17$.
- 23) **Choice B is correct.** (5.OA.1) Use the rectangular-prism volume formula: $11 \times 5 \times 7 = 385$. So the volume is 385 cubic inches.
- 24) **Choice B is correct.** (5.NF.1) Add: $2\frac{1}{6} + 4\frac{5}{6} = 6\frac{6}{6} = 7$.
- 25) **The correct answer is 24.** (5.NF.1) Left: $50 - 20 = 30$, $30 \div 5 = 6$. Right: $2 + 4 = 6$, $3 \times 6 = 18$. Sum: $6 + 18 = 24$.
- 26) **The correct answer is 0.9.** (5.OA.1) Compare the tenths first: 0.9 has 9 tenths, 0.84 has 8 tenths, and 0.76 has 7 tenths. The greatest is 0.9.
- 27) **The correct answer is 20 pages.** (5.NBT.7) The x-coordinate shows minutes, and the y-coordinate shows pages. So (10, 20) means 10 minutes and 20 pages.
- 28) **The correct answer is 20.** (5.G.2) $5 \div \frac{1}{4} = 20$. Each pound makes 4 quarter-pound loaves, so 5 pounds makes 20 loaves.
- 29) **Choice D is correct.** (5.NF.6) Multiply: $213 \times 3 = (200 \times 3) + (10 \times 3) + (3 \times 3) = 600 + 30 + 9 = 639$.



Cheer Squad Final Pep Talk

Hey Math Superstar!

◇ 8 practice tests! That's a LOT of work, and you did it all! I'm cheering so loud right now you can probably hear me through this page. You've earned every clap, every hooray, and every smile. ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 8 times. That's why your confidence is real today. It's not pretend. You earned it, problem by problem. ★

Cheer Squad Roll Call

- **Effort:** 100% SHOWED UP!
- **Heart:** HUGE!
- **Skill:** STRONG and growing!
- **Spirit:** BRIGHT and bold!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I've got this. I've practiced. I'm ready." Tiny self-cheers make a big difference.

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 Cheerleader (Go You!)

$45 \div 5 = ?$

PRACTICE TODAY.

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



ACHIEVE TOMORROW!



$3^2 + 4^2 = 25$

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.

$7x - 4 = 17$

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

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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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