

10 Florida FAST Grade 7 Math Practice Tests

The Ultimate Test Prep Collection with Answer Explanations

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10 Practice Tests

10 tests × full coverage

 Grade 7 Math — Engineered for Mastery 

Welcome to **The Architect's Workshop**.

Ten practice tests. Ten floors of a tower you're about to build. Each test lays another level of understanding — from foundation to capstone.

 **Foundation (Tests 1–3):** Learn the blueprints

 **Framework (Tests 4–6):** Build structural strength

 **Finishing (Tests 7–9):** Refine under pressure

 **Capstone (Test 10):** The final inspection

Precision. Practice. Perfection.

“ Every great structure
is built one floor at a time.
Ten levels of practice makes
your math rock-solid. ”



The Architectural Plan

A 4-phase construction plan for complete mastery

Phase I: Foundation (Tests 1–3)

Untimed. Explore the test format and question types. Read every answer explanation after each test.

Goal: understand the blueprint before you build.



Phase II: Framework (Tests 4–6)

Add a timer (70 minutes). Focus on the topics that gave you trouble in Phase I. Practice showing complete work and labeling units. Goal: build structural strength.



Phase III: Finishing (Tests 7–9)

Full timed conditions (60 minutes). Simulate the real exam. Review only the questions you missed — don't re-study what you already know. Goal: refine under real pressure.



Phase IV: Capstone (Test 10)

Your final inspection. Full exam conditions. This is the capstone — compare with Test 1 and measure your entire growth arc. Goal: prove your mastery.

Blueprint Specifications

 **Multiple Choice** — select the single best answer

 **Short Answer** — show your process

 **Multi-Select** — choose ALL that apply

 **Open Response** — explain and justify

Engineering Principles

Precision techniques for building every solution

The D.R.A.F.T. Method

- D Define** What exactly is the question asking? Write it in your own words.
- R Retrieve** Pull out given information. List numbers, units, and relationships.
- A Assemble** Choose the right formula or strategy. Set up the equation or proportion.
- F Figure** Compute step by step. Show every operation. Label units.
- T Test** Does the answer make sense? Re-read the question. Verify the units.

Seven Precision Rules

1. **Read twice, solve once.** The first read gives context; the second reveals what to compute.
2. **Annotate the problem.** Circle key information and underline the question.
3. **Estimate before calculating.** A quick mental approximation catches major errors.
4. **Set up the equation.** Write down the formula and plug in the numbers.
5. **Track your signs.** Rational number operations are the #1 error source in Grade 7.
6. **Eliminate unreasonable answers.** Use logic to rule out impossible results.
7. **Never submit blanks.** On open response, even a partial setup can earn credit.

Timing Blueprint

Tests 1–3: **Untimed** (learn the blueprints) > Tests 4–6: **70 min** (build speed) > Tests 7–10: **60 min** (exam conditions)



“ Every great structure starts with a solid plan. Study the blueprints, learn from each test, and build something extraordinary. **”**

PREVIEW



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Math Reference Sheet

You may use this page during your practice tests!

Symbol	Name	What It Means
$()$	Parentheses	Do this part first. $(3 + 4) \times 2 = 14$
10^3	Exponent	Multiply the base by itself that many times. $10^3 = 1,000$
$\frac{a}{b}$	Fraction	a parts out of b equal parts; also means $a \div b$.
$\frac{7}{3}$	Improper Fraction	Numerator $\geq$ denominator. $\frac{7}{3} = 2\frac{1}{3}$
0.45	Decimal	A number with a decimal point. $0.45 = \frac{45}{100}$
$> < =$	Comparison	Greater than, less than, equal to. $0.5 > 0.35$
$(3,5)$	Ordered Pair	A point on the coordinate plane: (x, y) .

Key Formulas

- **Volume of a rectangular prism:**

$$V = l \times w \times h$$

- **Order of operations:**

Parentheses $\rightarrow$ Exponents $\rightarrow$ Multiply/Divide
 $\rightarrow$ Add/Subtract

- **Powers of 10:**

$$10^1 = 10 \quad 10^2 = 100$$

$$10^3 = 1,000 \quad 10^4 = 10,000$$

- **Fraction as division:**

$$\frac{a}{b} = a \div b$$

Place Value Chart

Millions	1,000,000
Hundred-Thousands	100,000
Ten-Thousands	10,000
Thousands	1,000
Hundreds	100
Tens	10
Ones	1

Decimals

Tenths	0.1
Hundredths	0.01
Thousandths	0.001

Each place is $10\times$ the place to its right, and $\frac{1}{10}$ of the place to its left.

Key Math Vocabulary

- **Sum** — the result of addition
- **Difference** — the result of subtraction
- **Product** — the result of multiplication
- **Quotient** — the result of division
- **Remainder** — what's left over after dividing
- **Factor** — a number you multiply
- **Expression** — numbers and operations without =
- **Equation** — a math sentence with =
- **Numerator** — the top number of a fraction
- **Denominator** — the bottom number of a fraction
- **Mixed number** — a whole number + a fraction
- **Equivalent fractions** — fractions with equal value
- **Decimal** — a number written with a decimal point
- **Volume** — the space inside a 3D shape
- **Coordinate plane** — a grid with x and y axes
- **Ordered pair** — (x, y) location on the plane

Word Problem Clue Words

- **Add (+)**: total, altogether, combined, sum, increase, more than
- **Subtract (−)**: difference, how many more, fewer, remain, decrease, left
- **Multiply (×)**: each, every, groups of, times, product, per, of (with fractions)
- **Divide (÷)**: share equally, split, each group, how many groups, quotient, per



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PREVIEW

PRACTICE TEST

1

Practice Test 1

 10 Questions

Before You Start

- ✓ *Read each question carefully before choosing your answer.*
- ✓ *Show your work on scratch paper when you need to.*
- ✓ *Skip hard questions and come back to them later.*
- ✓ *Check your answers when you're done.*
- ✓ *Take your time — there's no rush!*

★ *You've Got This!* ★

Do your best and show what you know!

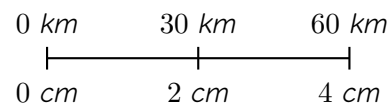


1. The table shows a proportional relationship. Find k and the missing value.

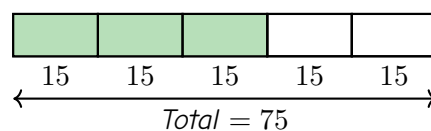
x	y
3	7.5
?	15
10	25

Your Answer:

2. A map uses the scale shown below. If two cities are 6.5 cm apart on the map, what is the actual distance?



- (A) 90 km (B) 95 km
(C) 97.5 km (D) 100 km
3. The tape diagram below represents a whole quantity. What percent of the total is the shaded portion?



- (A) 40% (B) 45%
(C) 50% (D) 60%



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4. A school has 500 students. If 68% eat in the cafeteria, how many eat there? Use a proportion.

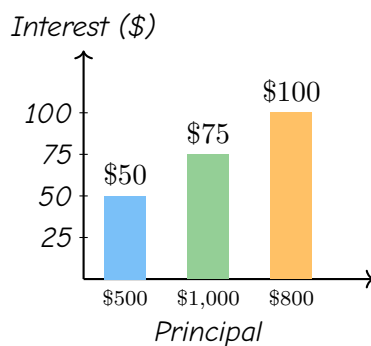
Ⓐ 320

(B) 340

© 350

(D) 368

5. The bar graph shows the interest earned on three different deposits over 2 years. Which deposit had the highest interest rate?



(A) Deposit of \$500 (earned \$50)

(B) Deposit of \$1,000 (earned \$75)

(c) Deposit of \$800 (earned \$100)

(D) All have the same rate

6. A jogger estimated running 5 miles but actually ran 4.8 miles. What is the percent error (rounded to the nearest tenth)?

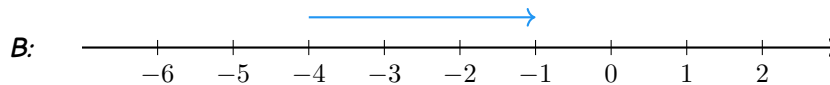
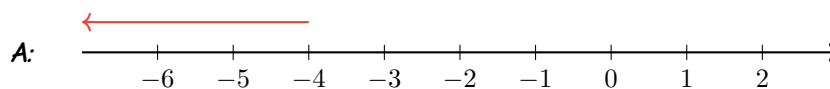
Your Answer:



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7. Which number line correctly models $(-4) + (-3)$?



(A) Model A

(B) Model B

(C) Both are correct

(D) Neither is correct

8. What is $0 - (-6)$?

(A) -6

(B) 6

(C) 0

(D) -12

9. Factor $-8x + 12y - 4$.

Your Answer:

10. Simplify $(-3x + 5) + (8x - 12)$.

Your Answer:



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★ End of Practice Test 1 ★

Great job finishing the test!

My Score

I got _____ out of 10 questions right.

*Check your answers in the **Answer Key** at the back of the book.*

 *Review any questions you missed. That's how we learn!*

Answer Key & Explanations



Answer Key

First try each test on your own, then check your work here.

Practice Test 1 — Answer Key

1 $k = 2.5$; missing $x = 6$

2 C

3 D

4 B

5 C

6 $\approx 4.2\%$

7 A

8 B

9 $-4(2x - 3y + 1)$

10 $5x - 7$

Time to Learn!

Review the explanations below, *especially for the questions you missed.*

Understanding why each answer is correct builds stronger problem-solving skills.

Tip: Circle any questions you got wrong, then read their explanation carefully.

Practice Test 1 — Detailed Explanations

1 $k = \frac{7.5}{3} = 2.5$. For the missing row: $15 = 2.5x$ so $x = 15 \div 2.5 = 6$.

2 Scale: $2 \text{ cm} = 30 \text{ km}$, so $1 \text{ cm} = 15 \text{ km}$. For 6.5 cm : $15 \times 6.5 = 97.5 \text{ km}$.

3 The shaded portion is $3 \times 15 = 45$. The total is 75. Percent: $45 \div 75 = 0.60 = 60\%$.



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4 $\frac{n}{500} = \frac{68}{100}$. Cross-multiply: $100n = 34,000$. Divide: $n = 340$.

5 Rates over 2 years: \$500: $50/(500 \times 2) = 5\%$. \$1,000: $75/(1,000 \times 2) = 3.75\%$. \$800: $100/(800 \times 2) = 6.25\%$. The \$800 deposit had the highest rate.

6 $\frac{|5-4.8|}{4.8} \times 100 = \frac{0.2}{4.8} \times 100 \approx 4.17 \approx 4.2\%$.

7 $(-4) + (-3)$ means start at -4 and move 3 units left (adding a negative). Model A shows the arrow going from -4 to -7 , which is correct.

8 $0 - (-6) = 0 + 6 = 6$. Subtracting a negative is the same as adding.

9 GCF of 8, 12, and 4 is 4. Factor out -4 : $-8x \div (-4) = 2x$, $12y \div (-4) = -3y$, $-4 \div (-4) = 1$. Result: $-4(2x - 3y + 1)$.

10 Combine: $(-3x + 8x) + (5 - 12) = 5x - 7$.



Well done checking your answers!

Keep practicing to strengthen your skills.



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THANK YOU

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Get the Full Book!

This preview shows just a small sample of what's inside.

The complete book includes:

- ✓ *All chapters and topics*
- ✓ *Hundreds of practice problems*
- ✓ *Complete answer key with explanations*
- ✓ *Colorful visuals and step-by-step examples*
- ✓ *Reference sheets and progress trackers*

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