

# 5 Full-Length Florida FAST Grade 7 Math Practice Tests

*Extra Practice for Test Day Success*

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Published by View Math Education

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# 5 Practice Tests



Grade 7 Math — Chart Your Path

Welcome, math explorer!

This journal holds **5 full expeditions** across the entire landscape of Grade 7 math. From the peaks of proportional reasoning to the valleys of negative numbers, every trail is mapped and waiting for you.

- Trail 1–2: Scout the terrain at your own pace
- Trail 3–4: Push deeper with timed conditions
- Trail 5: Summit the mountain — full test simulation

*Every great explorer starts with a single step.*

*Yours starts on the next page.*

“ Five trails gives you the journey every explorer needs: discover, practice, and conquer. Pack your pencils — the expedition begins! ”



# Trail Guide

Your route map for 5 math expeditions

## What's in This Journal

- **5 Full-Length Practice Tests** — each trail covers all 9 domains of Grade 7 math, from ratios and proportional relationships to probability and compound events.
- **Step-by-Step Answer Explanations** — not just answers, but a guided walkthrough of every solution path.
- **Expedition Log** — chart your scores, note tricky terrain, and celebrate the trails you've conquered.

## Your 5-Trail Itinerary

Spread your trails over several weeks for the best journey:

**Week 1:** Trail 1 — untimed. Explore the landscape. Mark unfamiliar territory.

**Week 2:** Study the rough terrain from Trail 1. Then attempt Trail 2 (soft timer).

**Week 3:** Trail 3 — timed (65 min). Compare with Trail 1 to see growth.

**Week 4:** Focus on weak spots. Trail 4 — timed. Practice showing all work.

**Week 5:** Trail 5 — full conditions. The summit attempt!

### Multiple Choice

Navigate four options and select the best path. Eliminate wrong answers first — like crossing streams off a map.

**Explorer's tip:** Work the problem yourself before reading the choices.

### Constructed Response

Show every calculation, label every unit, and explain your reasoning. Like a field journal, your work tells the full story.

**Explorer's tip:** Even a partial trail earns credit. Never leave it blank.

# Survival Skills

Essential navigation strategies for every trail

## The Four-Point Compass

↑ **N** – Note the key info

Circle numbers. Underline the question.

← **W** – Weigh your answer

Does it match the question and estimate?

→ **E** – Estimate first

Get a ballpark answer before solving.

↓ **S** – Solve step by step

Write equations. Show every operation.

## Grade 7 Terrain Warnings

-  **Negative numbers:** Watch signs when multiplying and dividing rational numbers.
-  **Proportions:** Make sure both ratios compare the same quantities in the same order.
-  **Percent problems:** Identify whether you need the part, the whole, or the percent.
-  **Geometry:** Label all measurements and don't confuse area with perimeter, or surface area with volume.
-  **Probability:** Read whether the question asks for theoretical or experimental probability.

 **Pacing Your Trek**

- Trails 1–2: Untimed (explore freely)
- Trails 3–4: Timed (65 minutes)
- Trail 5: Strict test conditions
- Don't sprint — steady pace wins

 **After Each Trail**

- Read every answer explanation
- Mark the topic, not just the question
- Log your results in the Expedition Log
- Study rough terrain before the next trail



“ The best explorers don't avoid rough terrain — they study it. Every wrong answer is a trailhead to a deeper understanding. Follow those paths. ”



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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 ( $\times$ )**: each, every, groups of, times, product, per, of (with fractions)
- **Divide ( $\div$ )**: share equally, split, each group, how many groups, quotient, per



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PREVIEW



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PREVIEW

PRACTICE TEST

1

## Practice Test 1

 30 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. On a proportional graph, the point  $(1, r)$  represents:

- (A) The  $x$ -intercept  
(B) The constant of proportionality  
(C) The slope of the line  
(D) Both B and C

2. Small paint can:  $\frac{3}{4}$  gallon for \$18. Large can:  $1\frac{1}{2}$  gallons for \$33. Which is the better buy?

- (A) Small, at \$22/gal  
(B) Large, at \$22/gal  
(C) Small, at \$24/gal  
(D) Large, at \$24/gal

3. A class has 32 students. If 75% passed the test, how many students passed?

- (A) 20  
(B) 24  
(C) 25  
(D) 28

4. A recipe uses 3 cups of sugar out of 12 cups of ingredients total. What percent is sugar?

- (A) 20%  
(B) 25%  
(C) 30%  
(D) 36%

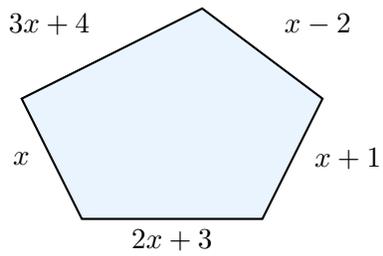
5. You want to earn \$200 in interest in 4 years at 5% simple interest. How much must you deposit?

- (A) \$800  
(B) \$1,000  
(C) \$1,200  
(D) \$2,000





10. A pentagon has the side lengths shown below. What is the perimeter?



- (A)  $8x + 6$                       (B)  $7x + 6$   
(C)  $8x + 8$                       (D)  $7x + 8$

11. Solve  $6(x - 1) = -18$ .

- (A)  $x = -2$                       (B)  $x = 2$   
(C)  $x = -4$                       (D)  $x = 4$



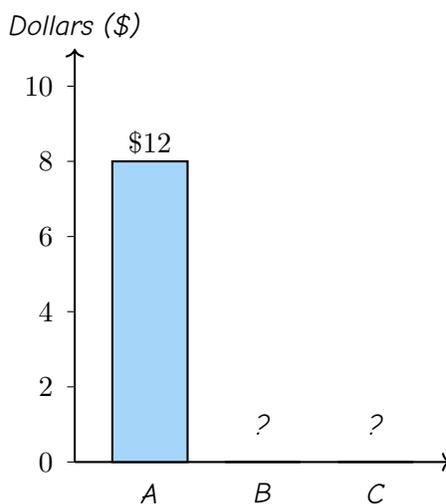
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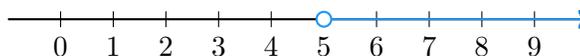
12. The bar graph shows how much three students earned. Together they earned a total of \$31.50. Student C earned  $\frac{1}{2}$  as much as Student A. Find how much Student C earned.



Student A earned \$12, and Student C earned  $\frac{1}{2}$  of Student A's earnings.

Your Answer:

13. Which inequality is represented by the number line below?



(A)  $x \geq 5$

(B)  $x > 5$

(C)  $x \leq 5$

(D)  $x < 5$

14. True or false: The graph of  $x < 5$  and  $x \leq 5$  look exactly the same.

(A) True — both shade to the left of 5

(B) False —  $x < 5$  has an open circle,  $x \leq 5$  has a closed circle

(C) False — they shade in different directions

(D) True — the circle type does not matter



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19. Two circles have radii of 4 cm and 9 cm. What is the difference between their diameters?

Your Answer:

20. What is the surface area of a cube with side length 4 cm?

- (A)  $16 \text{ cm}^2$  (B)  $64 \text{ cm}^2$   
(C)  $96 \text{ cm}^2$  (D)  $24 \text{ cm}^2$

21. Which formula is used to find the volume of any prism?

- (A)  $V = lwh$  only (B)  $V = Bh$   
(C)  $V = 2(lw + lh + wh)$  (D)  $V = \frac{1}{3}Bh$

22. Which has more volume: a cylinder with  $r = 3 \text{ cm}$  and  $h = 10 \text{ cm}$ , or a cylinder with  $r = 5 \text{ cm}$  and  $h = 3 \text{ cm}$ ? Use  $\pi \approx 3.14$ .

- (A) The first cylinder (B) The second cylinder  
(C) They have the same volume (D) Not enough information

23. A random sample of 50 apples from an orchard found that 6 were bruised. If the orchard has 3,000 apples, about how many are bruised?

Your Answer:

24. When comparing two populations visually, you should look at:

- (A) Only the center (mean or median) (B) Only the spread (range or MAD)  
(C) Both the center and the spread (D) Only the largest and smallest values



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25. Data: 5, 5, 10, 10, 10, 15, 15. The mean is 10. Find the MAD.

Your Answer:

26. A back-to-back stem-and-leaf plot shows Team A's leaves as 8 5 3 and Team B's leaves as 1 4 7 for stem 6. List all values for both teams.

Your Answer:

27. Out of 80 students, 24 like pizza best. What angle should the pizza sector have in a circle graph?

(A)  $24^\circ$

(B)  $72^\circ$

(C)  $108^\circ$

(D)  $120^\circ$

28. A fair die is rolled. Which probability model correctly shows the probability of each outcome?

(A)  $P(1) = \frac{1}{6}, P(2) = \frac{1}{6}, P(3) = \frac{1}{6}, P(4) = \frac{1}{6},$   
 $P(5) = \frac{1}{6}, P(6) = \frac{1}{6}$

(B)  $P(1) = \frac{1}{6}, P(2) = \frac{2}{6}, P(3) = \frac{3}{6}, P(4) = 0,$   
 $P(5) = 0, P(6) = 0$

(C)  $P(\text{even}) = \frac{1}{2}, P(\text{odd}) = \frac{1}{2}$

(D)  $P(1) = \frac{1}{3}, P(2) = \frac{1}{3}, P(3) = \frac{1}{3}$

29. Two dice are rolled. What is the probability that the sum is 10 or greater? Write your answer as a fraction in simplest form.

Your Answer:



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30. The table shows a simulation using random digits 0–9 to model a 30% chance of rain. Digits 0, 1, 2 represent rain. Based on the 10 trials below, what is the experimental probability of rain?

Trial	Digit	Rain?
1	5	No
2	1	Yes
3	8	No
4	0	Yes
5	3	No
6	7	No
7	2	Yes
8	9	No
9	4	No
10	6	No

(A)  $\frac{2}{10} = 0.20$

(B)  $\frac{3}{10} = 0.30$

(C)  $\frac{4}{10} = 0.40$

(D)  $\frac{7}{10} = 0.70$



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★ *End of Practice Test 1* ★

*Great job finishing the test!*

 **My Score**

*I got \_\_\_\_\_ out of 30 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!*

THANK YOU

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