

3

New Jersey

NJSLA

GRADE

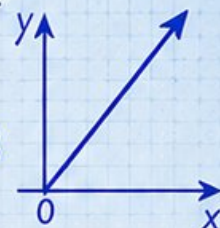
6

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

$$y = 2x + 3$$



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

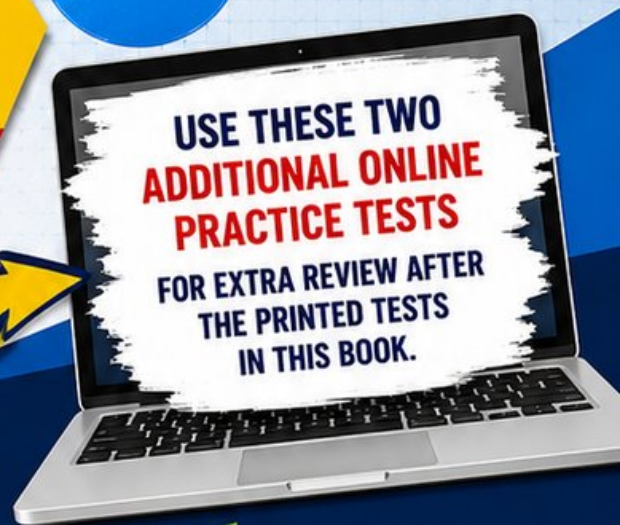
$$36\% \text{ of } 150 = ?$$



3 | PRINTED TESTS



2 | ONLINE TESTS



Build Confidence



Master Key Math Skills



Answer Explanations for Every Question



Test-Taking Strategies That Work

3 New Jersey NJSLA Grade 6 Math Practice Tests

Standards-Aligned Shore-To-City Test Focus for New Jersey Student Learning Assessments



Three complete 40-question Grade 6 practice rounds for NJSLA, built for shore-to-city test focus 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, New Jersey Math Explorer!

Three focused rounds using shore-to-city test focus

This book gives you three full Grade 6 practice tests for NJSLA. Each round uses shore routes, busy streets, and quick checks with neat work as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your New Jersey Practice Promise

Stay alert: read the labels, solve in a clean order, and make the answer fit the question.

Read

Plan

Check

How to Use This Book

A three-session routine for shore-to-city test focus

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.

New Jersey review rhythm: Take one round, review without rushing, and use the next test to sharpen weak skills.



What Is Inside?

Three NJSLA tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Shore-to-city test focus 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) Which expression is equivalent to $8(x - 2)$?

A. $8x - 2$

C. $x - 16$

B. $8x - 16$

D. $8x + 16$

2) A store offers $\frac{1}{8}$ off the original price. What percent off is this?

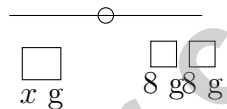
A. 8%

C. 18%

B. 12.5%

D. 80%

3) A balance scale with a block on the left weighing x grams is balanced against 2 blocks on the right each weighing 8 grams. Which equation matches?

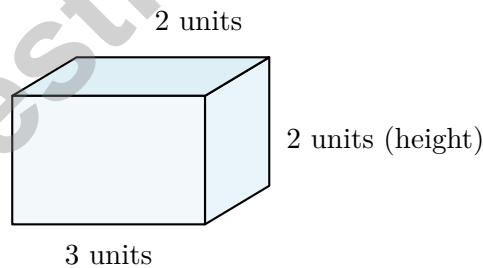


A. $x + 2 = 8$

C. $x = 8 - 2$

B. $2x = 8$

D. $x = 8 + 8$



4)

How many unit cubes fit in this rectangular prism?

A. 7 unit cubes

C. 18 unit cubes

B. 12 unit cubes

D. 24 unit cubes



- 5) A gym charges based on the number of personal training sessions. The graph shows points (4, 160) and (6, 240) on a straight line through the origin. What is the cost per session?

- A. \$20 per session C. \$40 per session
 B. \$30 per session D. \$80 per session

6)

Store	Original Price	Sale Price
Store A	\$50	\$40
Store B	\$60	\$42

Which store offers the larger percent discount?

- A. Store A (20% off) C. Store A (30% off)
 B. Store B (30% off) D. Both offer the same discount
- 7) A jar contains red and blue marbles. The ratio of red to blue is 3 : 5. If there are 18 red marbles, how many blue marbles are in the jar?

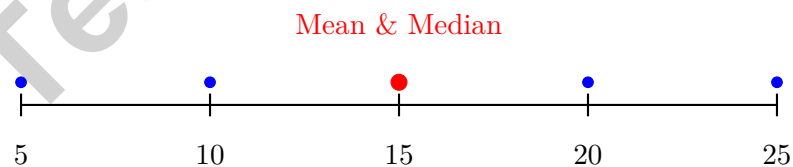
- 8) A model train is built at a scale of 1 : 50. If the model is 8 inches long, how many inches long is the real train?

- A. 200 C. 400
 B. 300 D. 500



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- 1) Write an expression for “a number p increased by the product of 5 and 3”.
- A. $p(5 + 3)$ C. $p + 5 + 3$
 B. $(p + 5) \cdot 3$ D. $p + 5 \cdot 3$
- 2) If a circle has an area of approximately 314 cm^2 and $\pi \approx 3.14$, what is the diameter?
- A. 5 cm C. 20 cm
 B. 10 cm D. 40 cm
- 3) A climate scientist collects temperature data from 100 cities. What is the population?
- A. The 100 cities sampled C. The temperature readings
 B. All cities on Earth D. The countries represented
- 4) A large IQR indicates what about a data set?
- A. The data is very tightly clustered D. The middle 50% of the data is spread out
 B. There are no outliers present
 C. All values are identical
- 5) Find the mean of the 5 values shown. Which also equals the median?



- A. 10 C. 20
 B. 25 D. 15

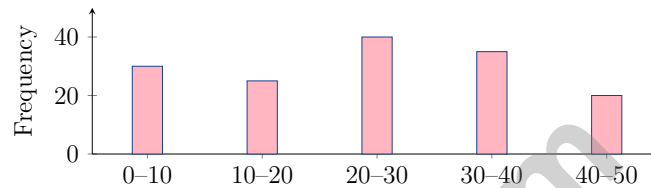


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6) A basketball team's scores in seven games are 56, 62, 58, 71, 65, 60, 68. When ordered: 56, 58, 60, 62, 65, 68, 71. Identify Q_1 .

- A. 56 C. 60
 B. 62 D. 58

7) A histogram shows that the most common range is 20–30 with frequency 40. If the total number of data points is 150, what percentage of data falls in the 20–30 range?



A. 20% C. 40%
 B. 26.7% D. 33.3%

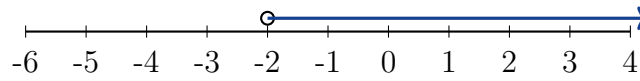
8) A dataset has $\min = 4$, $Q_1 = 9$, $\text{median} = 14$, $Q_3 = 19$, $\max = 29$. What is the upper whisker length?

- A. 5 C. 14
 B. 10 D. 25

9) A square has vertices at $(0, 0)$, $(6, 0)$, $(6, 6)$, and $(0, 6)$. What is its perimeter?



1) Which inequality is represented by the number line?



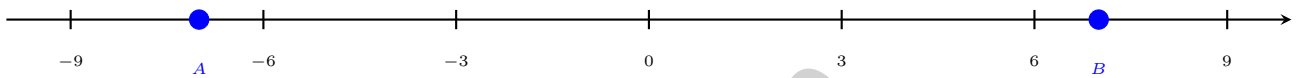
A. $x \leq -2$

C. $x > -2$

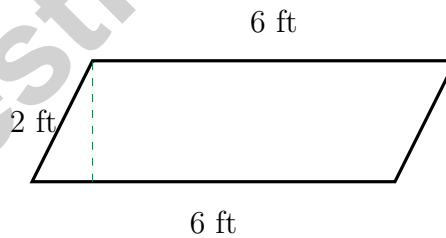
B. $x < -2$

D. $x \geq -2$

2)



On a number line, point A is at -7 and point B is at 7 . What is the distance between them?



3)

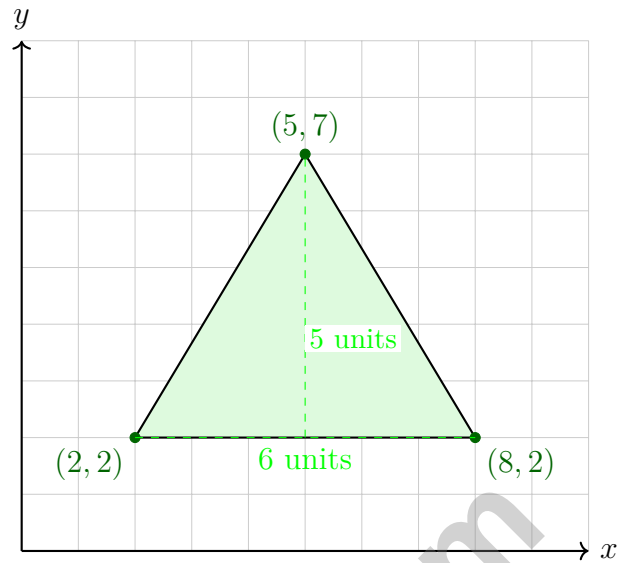
What is the area of the parallelogram shown?

A. 8 ft^2

C. 14 ft^2

B. 12 ft^2

D. 18 ft^2



4)

What is the area of this triangle?

- A. 15 square units C. 25 square units
 B. 20 square units D. 30 square units



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New Jersey NJSLA Practice Test Answer Keys

How to use this New Jersey NJSLA 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 shore-to-city test focus
3. rework the problem before reading the full explanation, using this reminder:
Stay alert: read the labels, solve in a clean order, and make the answer fit the question.

A calm New Jersey correction routine turns every missed item into useful practice. Take one round, review without rushing, and use the next test to sharpen weak skills.



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New Jersey Practice Test Answers and Explanations

Review the three printed NJSLA tests with alert, efficient, and ready for the next route habits.

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(6.EE.A.3)** Distribute: $8(x - 2) = 8 \cdot x - 8 \cdot 2 = 8x - 16$.
- 2) **Choice B is correct.** **(6.RP.A.3)** $\frac{1}{8} = \frac{12.5}{100} = 12.5\%$.
- 3) **Choice D is correct.** **(6.EE.B.5)** Two blocks of 8 grams balance x . So $x = 8 + 8 = 16$. Also written as $x = 2 \times 8 = 16$.
- 4) **Choice B is correct.** **(6.G.A.2)** Volume = $3 \times 2 \times 2 = 12$ unit cubes.
- 5) **Choice C is correct.** **(6.RP.A.3)** The unit rate is $\frac{\$160}{4 \text{ sessions}} = \40 per session. Verify: $\frac{\$240}{6} = \40 per session ✓.
- 6) **Choice B is correct.** **(6.RP.A.3)** Store A's discount is $\frac{50-40}{50} = \frac{10}{50} = 20\%$. Store B's discount is $\frac{60-42}{60} = \frac{18}{60} = 30\%$, so Store B offers the larger percent discount.
- 7) **The correct answer is 30.** **(6.RP.A.3)** Red marbles are the 3-part amount. Since $18 \div 3 = 6$, each part is worth 6 marbles, and blue marbles are 5 parts: $5 \times 6 = 30$.
- 8) **Choice C is correct.** **(6.RP.A.3)** At a scale of 1 : 50, the real object is 50 times larger. $8 \times 50 = 400$ inches.
- 9) **Choice B is correct.** **(6.RP.A.3)** Multiply: $35 \times 100 = 3500$ cm.
- 10) **Choice B is correct.** **(6.SP.B.4)** Net income: $\$3000 - \$400 - \$150 - \$100 = \$2350$.
- 11) **Choice A is correct.** **(6.EE.C.9)** Speed = $\frac{\text{distance}}{\text{time}} = \frac{120 \text{ km}}{2 \text{ h}} = 60 \text{ km/h}$. The line passes through the origin, confirming a proportional relationship.
- 12) **Choice C is correct.** **(6.EE.C.9)** Save allocation: 10% of $\$4000 = 0.10 \times 4000 = \400 .
- 13) **Choice C is correct.** **(6.RP.A.3)** Map A: $4 \times 5 = 20$ km. Map B: $4 \times 10 = 40$ km.
- 14) **Choice B is correct.** **(6.NS.A.1)** $2\frac{1}{4} = \frac{9}{4}$ and $1\frac{1}{2} = \frac{3}{2}$, so $\frac{9}{4} \div \frac{3}{2} = \frac{9}{4} \times \frac{2}{3} = \frac{18}{12} = \frac{3}{2} = 1\frac{1}{2}$.
- 15) **Choice A is correct.** **(6.NS.B.2)** $5,832 \div 27 = 216$. Check: $27 \times 216 = 5,832$.
- 16) **Choice D is correct.** **(6.NS.B.3)** Align decimal points: $12.70 + 8.45 = 21.15$. Stack and add, carrying as needed.
- 17) **Choice B is correct.** **(6.NS.B.4)** $12 = 4 \times 3$ and $12 = 6 \times 2$, so 12 is divisible by both 4 and 6. Option A is a multiple of 4 but not 6; C is a multiple of 6 but not 4; D is neither.
- 18) **Choice D is correct.** **(6.NS.B.4)** A, B, and C all peel out different-but-valid common factors (8, 4, 2) yet land on $40 + 24$ every time—that is flexibility the distributive property gives you.
- 19) **Choice B is correct.** **(6.NS.C.5)** The distance is $8000 - (-5000) = 8000 + 5000 = 13000$ meters.
- 20) **The correct answer is 4 : 6 = 2 : 3 (dividing by 2) and 4 : 6 = 8 : 12 (multiplying by 2)..** **(6.RP.A.1)** Nice checking: Choice A works because 4 : 6 simplifies to 2 : 3, and Choice B works because multiplying both parts of 4 : 6 by 2 gives 8 : 12. The other choices change the relationship.
- 21) **The correct answer is 9 dollars per book.** **(6.RP.A.1)** Divide the total cost by the number of books: $45 \div 5 = 9$ dollars per book.
- 22) **The correct answer is 12 gal/min.** **(6.RP.A.2)** $144 \div 12 = 12$ gallons per minute.
- 23) **Choice B is correct.** **(6.SP.B.4)** Absolute value $|-25| = 25$ represents the magnitude of the temperature change, not its direction.
- 24) **Choice D is correct.** **(6.SP.B.4)** Point Z is halfway between -1 and 0 , which equals $-\frac{1}{2}$.
- 25) **Choice B is correct.** **(6.NS.C.8)** Reflect $(6, -4)$ across the x -axis: $(6, 4)$. Then reflect across the y -axis: $(-6, 4)$.
- 26) **The correct answer is 24.** **(6.RP.A.3)** The rate is $50 : 4$ or $12.5 : 1$. For 300 cubic yards: $300 \div 50 \times 4 = 24$ hours.
- 27) **Choice B is correct.** **(6.NS.C.7)** -1.2 is closer to zero than -1.5 , so -1.2 is greater.
- 28) **Choice D is correct.** **(6.NS.C.8)** Horizontal side: $|6 - 0| = 6$ units. Vertical side: $|5 - 2| = 3$ units. The longer side is 6 units.



Hi, Math Champion!

◇ You trained hard! 3 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!
★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 3 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

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

THIS BOOK INCLUDES:

- 3 Full-Length Printed Tests
 - 2 Online Practice Tests
-  Detailed Answer Explanations

MORE PRACTICE. GREATER RESULTS.

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

WHAT YOU'LL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

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



2 ONLINE TESTS

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



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PRACTICE
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