

8

Washington

Smarter Balanced

GRADE 6

MATH

PRACTICE TESTS

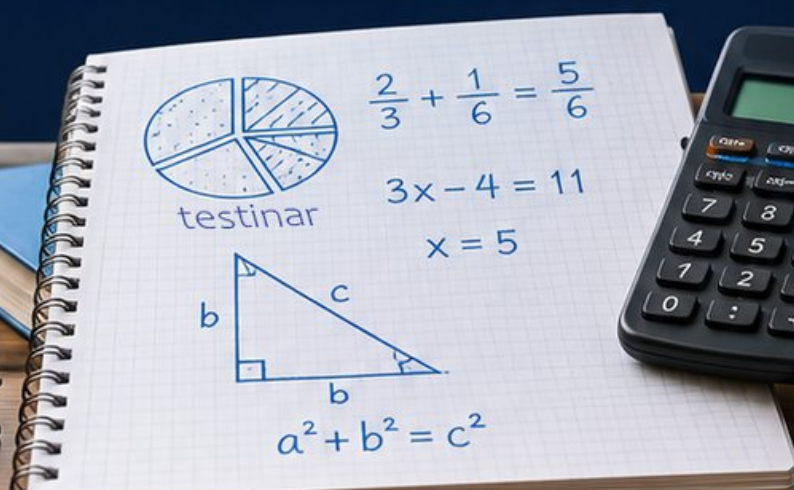
8
PRINTED
TESTS

+

2
ONLINE
TESTS

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

Standards-Aligned *Steady Southern* Problem Solving for Comprehensive Assessment Program



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 Washington Smarter Balanced Grade 6 Math Practice Tests

Standards-Aligned Evergreen Review Thinking for Smarter Balanced Assessment Consortium



Eight complete 40-question Grade 6 practice rounds for Smarter Balanced, built for evergreen review thinking with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome, Washington Math Explorer!

Eight focused rounds using evergreen review thinking

This book gives you eight full Grade 6 practice tests for Smarter Balanced. Each round uses evergreen trails, water crossings, and careful data reading as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Washington Practice Promise

Keep the path visible: read the graph, label the work, and check the answer in context.

Read

Plan

Check

How to Use This Book

A eight-session routine for evergreen review thinking

1. **Work in order.** Take one 40-question test at a time in a quiet place.
2. **Preview the skills.** Scan the quick review pages before beginning the first round.
3. **Correct actively.** Retry missed items before reading the full explanation.
4. **Mark confidence.** Put a small star beside problems where your plan felt strong.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Washington review rhythm: Practice, review, and return with one clearer habit for the next round.



What Is Inside?

Eight Smarter Balanced tests, 320 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–8	Final stamina rounds for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Evergreen review thinking means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.

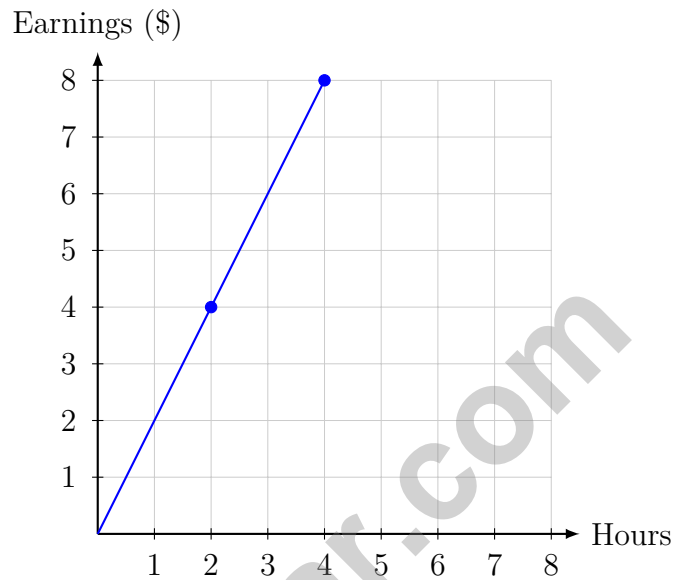


Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	29
★ Practice Test 3	_____	47
★ Practice Test 4	_____	64
★ Practice Test 5	_____	79
★ Practice Test 6	_____	94
★ Practice Test 7	_____	109
★ Practice Test 8	_____	126
Practice Test Answer Keys	_____	143
Practice Test Answers and Explanations	_____	148

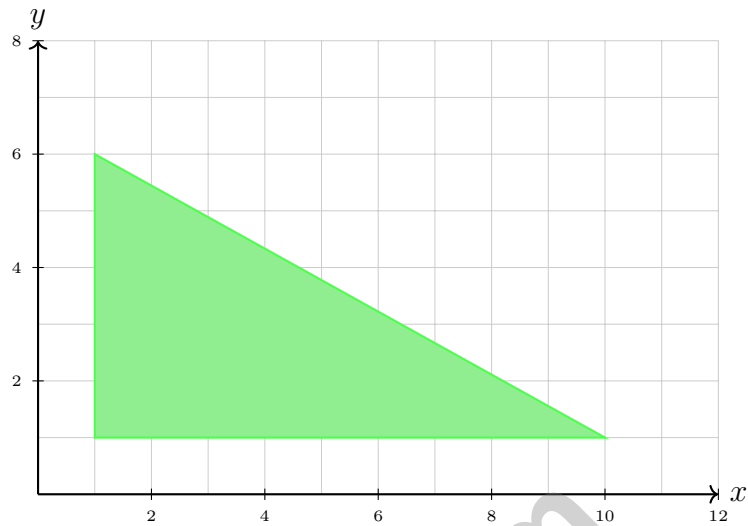
- 1) The graph below shows the relationship between the number of hours worked and earnings.



Based on the graph, how much does an employee earn per hour?

- A. \$2 per hour C. \$4 per hour
 B. \$3 per hour D. \$5 per hour
- 2) A trapezoid has bases of 15 cm and 9 cm. If the area is 72 cm^2 , what is the height?
- A. 4 cm C. 8 cm
 B. 6 cm D. 12 cm





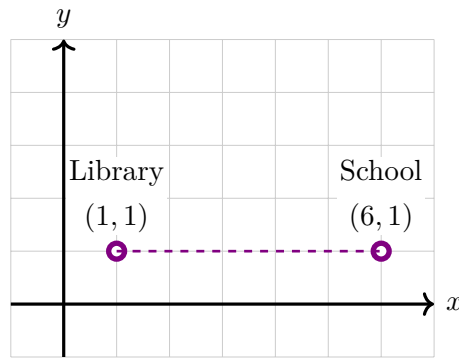
3)

Find the area of the right triangle with vertices at $(1, 1)$, $(10, 1)$, and $(1, 6)$.

- A. 20 square units C. 25 square units
 B. 22.5 square units D. 27 square units
- 4) If a distribution has $Q1 = 40$, $Q2$ (median) $= 50$, and $Q3 = 55$, what does this tell you about the data?
- A. The bottom half is spread out more than the top half C. The data is perfectly symmetric
 B. The top half is spread out more than the bottom half D. The data is bimodal



Scan me!
For more practice
& answers

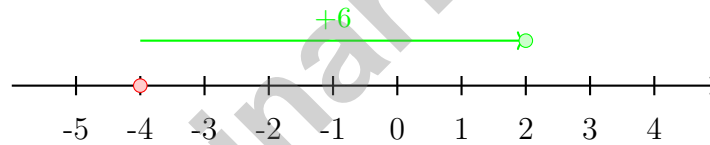


5)

On a map, the library is at (1, 1) and the school is at (6, 1). If each unit is 200 meters, what is the distance?

- A. 600 m
- B. 800 m
- C. 1000 m
- D. 1200 m

6) Which number line correctly shows $-4 + 6 = 2$?



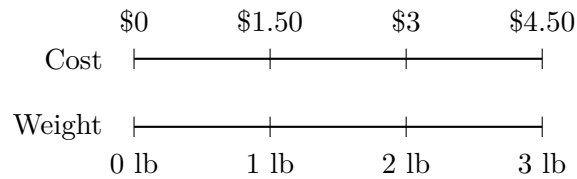
- A. Arrow goes from -4 right 6 to 2
- B. Arrow goes from -4 left 6 to -10
- C. Arrow goes from 0 right 6 to 6
- D. Arrow goes from 4 right 6 to 10

7) What is the result of $9 \times (-4)$?

- A. 36
- B. -5
- C. 5
- D. -36



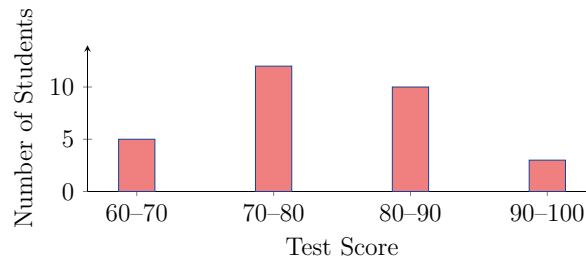
- 1) The table shows the cost of apples by weight. What is the cost per pound?



- A. \$2 per pound
- B. \$1.25 per pound
- C. \$1 per pound
- D. \$1.50 per pound
- 2) A jar contains 20 marbles of different colors. The probability of drawing a purple marble is 0.20. How many purple marbles are in the jar?
- A. 2
- B. 10
- C. 5
- D. 4
- 3) A cube net is arranged with faces labeled 1–6: four faces in a horizontal line (1-2-3-4), face 5 attached above face 2, and face 6 attached above face 3. If face 1 is the top of the cube when folded, which face is the bottom?
- A. Face 3
- B. Face 4
- C. Face 5
- D. Face 6
- 4) A teacher reports: “Most students scored between 75–85. A few students scored in the 60s, and one scored 95.” Which shape best describes this distribution?
- A. Symmetric
- B. Bimodal
- C. Skewed left
- D. Skewed right



- 5) A histogram groups student test scores into intervals of width 10: 60–70: 5 students; 70–80: 12 students; 80–90: 10 students; 90–100: 3 students. How many students scored below 80?



- A. 5 students C. 17 students
 B. 12 students D. 22 students
- 6) What is $(-9) \times 2$?
- A. -18 C. -7
 B. 18 D. 7
- 7) Class B scores are 60, 75, 85, 95, 100 with mean 83. Find the mean absolute deviation.

- 8) A stock gained \$8 one day and lost \$3 the next day. What is the net change?
- A. -11 dollars C. 5 dollars
 B. -5 dollars D. 11 dollars



Scan me!
For more practice
& answers

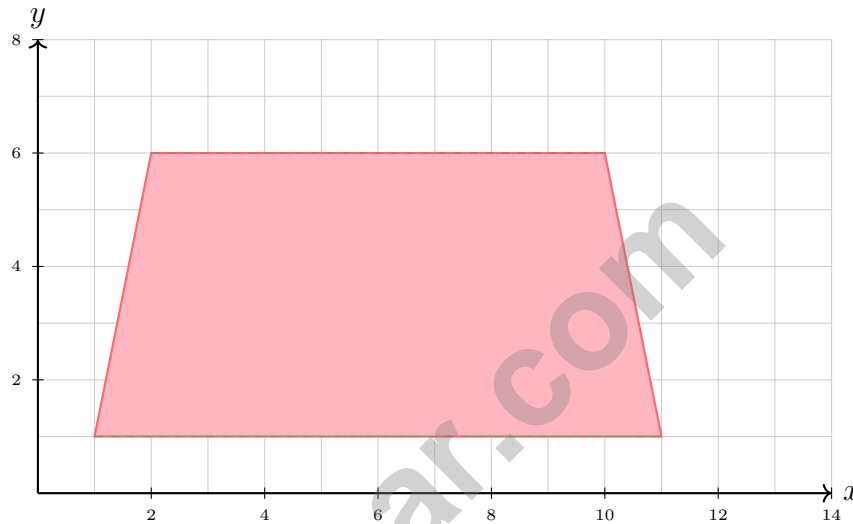
1) What is $5,832 \div 27$?

A. 216

C. 220

B. 210

D. 225



2)

A trapezoid has bases of 10 units and 8 units, with a height of 5 units. What is its area?

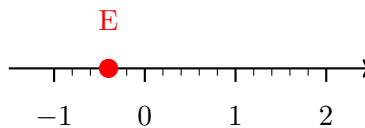
A. 40 square units

C. 50 square units

B. 45 square units

D. 55 square units

3) The number line below has tick marks at fifths. What is the coordinate of point E?



A. $-\frac{3}{5}$

C. $-\frac{1}{5}$

B. $\frac{1}{5}$

D. $-\frac{2}{5}$



- 4) A bag of flour weighs 5.4 kg. You divide it equally among 6 recipes. How much flour does each recipe use (in kilograms)?

- 5) An elevator is at floor -8 (basement level). It rises 15 floors. What floor does it reach?

- A. Floor -23 C. Floor 7
 B. Floor -7 D. Floor 23

- 6) A savings account earns \$15 per month. After 8 months, how much more money is in the account?

- A. \$7 C. \$120
 B. \$23 D. $-\$120$

- 7) A student's test score history: First test $+5$ points above average, second test -8 points below average, third test $+12$ points above average. What is the total relative to average?

- A. -11 points C. 25 points
 B. 9 points D. -3 points

- 8) Evaluate: $7 \times 2 - 3 + 1$

- A. 8 C. 14
 B. 12 D. 18



Scan me!
For more practice
& answers

Washington Smarter Balanced Practice Test Answer Keys

How to use this Washington Smarter Balanced 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 evergreen review thinking
3. rework the problem before reading the full explanation, using this reminder:
Keep the path visible: read the graph, label the work, and check the answer in context.

A calm Washington correction routine turns every missed item into useful practice. Practice, review, and return with one clearer habit for the next round.



Scan me!
For more practice
& answers

Washington Practice Test Answers and Explanations

Review the eight printed Smarter Balanced tests with observant, steady, and ready for the next trail habits.

Practice Test 1 Answers and Explanations

- Choice A is correct.** (6.EE.C.9) The graph shows the line passes through (2, 4) and (4, 8). The slope is $\frac{8-4}{4-2} = \frac{4}{2} = 2$, so the rate is \$2 per hour.
- Choice B is correct.** (6.G.A.1) Using $72 = \frac{1}{2}(15 + 9) \times h = 12h$, so $h = 6$ cm.
- Choice B is correct.** (6.G.A.1) Base: $10 - 1 = 9$ units. Height: $6 - 1 = 5$ units. Area = $\frac{1}{2} \times 9 \times 5 = 22.5$ square units.
- Choice A is correct.** (6.SP.A.2) $Q2 - Q1 = 50 - 40 = 10$ (bottom half spread). $Q3 - Q2 = 55 - 50 = 5$ (top half spread). The bottom half is more spread out.
- Choice C is correct.** (6.NS.C.8) Distance on map: $|6 - 1| = 5$ units. Actual distance: $5 \times 200 = 1000$ meters.
- Choice A is correct.** (6.NS.B.3) Starting at -4 and moving right 6 units: $-4 + 6 = 2$.
- Choice D is correct.** (6.NS.B.3) Positive times negative is negative: $9 \times (-4) = -36$.
- Choice B is correct.** (6.EE.A.3) Ascending means the elevation increases: $-120 + 45 = -75$ feet.
- Choice C is correct.** (6.EE.A.2c) Substitute $x = 9$: $\frac{9}{3} + 5 = 3 + 5 = 8$.
- Choice C is correct.** (6.G.A.2) $V = 4.5 \times 3 \times 2.667 = 4.5 \times 3 \times \frac{8}{3} = 4.5 \times 8 = 36$ cm³.
- Choice A is correct.** (6.G.A.3) Diagonal corners of a rectangle are (3, 2) with (8, 6), and (8, 2) with (3, 6). The diagonally opposite vertex to (8, 2) is (3, 6).
- The correct answer is 36.50.** (6.NS.B.3) Budget shopping? Stack the cents: $\$12.75 + \$8.50 + \$15.25 = \36.50 altogether.
- Choice D is correct.** (6.RP.A.1) From $A = \pi r^2$, we get $113.04 \approx 3.14 \times r^2$, so $r^2 \approx 36$, thus $r = 6$ cm. Diameter $d = 2 \times 6 = 12$ cm.
- Choice A is correct.** (6.SP.A.2) If this survey asks all students in the school, that is the population. The sample would be the subset of students who actually answered the survey. Option C describes the sample, not the population.
- The correct answer is 3.** (6.NS.B.4) Since $56 = 2 \times 2 \times 2 \times 7 = 2^3 \times 7$, the exponent on 2 is 3.
- Choice B is correct.** (6.SP.B.5c) Mean = $\frac{20 + 30 + 40 + 50}{4} = \frac{140}{4} = 35$.
- Choice B is correct.** (6.SP.B.5) The median is the middle value and is unaffected by extreme outliers. The mean, range, and standard deviation all respond strongly to outliers.
- Choice B is correct.** (6.SP.B.4) In a stem-and-leaf plot, each leaf combines with the stem to form a value. Stem 7 with leaves 2, 5, 8 represents 72, 75, 78.
- Choice B is correct.** (6.NS.A.1) $\frac{2}{9} = \frac{200}{900}$. So $\frac{2}{9} \times 900 = 1800 \div 9 = 200$ items.
- The correct answer is 31.** (6.EE.B.8) The greatest whole number less than 32 is 31.
- Choice D is correct.** (6.RP.A.3) A double-bar graph places two bars side-by-side for each category, making direct comparison easy. Single bars, histograms, and stem-and-leaf plots don't show side-by-side comparison.
- The correct answer is 4 and 12.** (6.NS.B.4) The number of boxes must divide both 48 and 60. Choice B works because both numbers are divisible by 4. Choice D works because both numbers are divisible by 12. Choices A, C, and E do not divide both amounts evenly.
- Choice D is correct.** (6.RP.A.1) The order is blue to red, so start with 8 : 12. Divide both parts by 4 to simplify the ratio to 2 : 3.
- Choice D is correct.** (6.RP.A.3) Both statements work. The exact counts give 12 : 18, and dividing both parts by 6 gives the simpler ratio 2 : 3, or "for every 2 boys there are 3 girls."
- Choice C is correct.** (6.RP.A.3d) Divide cost by cups: $2.50 \div 1 = 2.50$ dollars per cup.
- Choice A is correct.** (6.RP.A.3b) Compare the unit prices. The 5-pack costs $12.50 \div 5 = \$2.50$ per pack, while the 8-pack costs $19.20 \div 8 = \$2.40$ per pack. The lower unit price is the better deal.



Math Detective at Work

Hi, Math Detective!

◇ You did such a great job! You finished 8 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

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



PERFECT FOR

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence



**PRACTICE TODAY.
SUCCEED TOMORROW.**

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Understand Key Concepts

Reinforce important math ideas aligned with standards.



Test Confidence

Get familiar with test formats and improve accuracy.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

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



2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

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



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS