

5

Iowa

ISASP

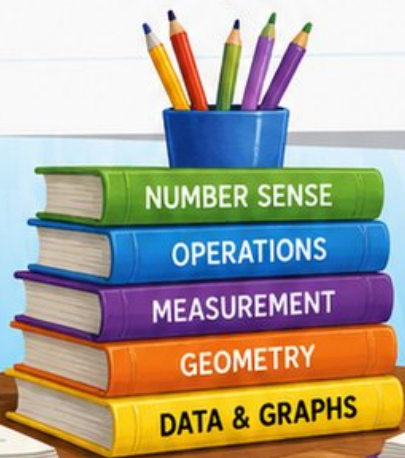
GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations

$24 \div 3 = 8$



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-
ALIGNED
PRACTICE



DETAILED
ANSWER KEYS



CLEAR
EXPLANATIONS
TO HELP YOU SUCCEED

5 Iowa ISASP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five focused 30-question checkpoints for Grade 3 math: facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome to the Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Iowa ISASP. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Iowa has rolling fields, river towns, fairgrounds, and neat rows that make organized thinking powerful. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

Notice

Circle key words, units, and numbers before you start.

Build

Use arrays, number lines, equations, tables, or sketches.

Verify

Ask, "Does this answer fit the question?"

Five-checkpoint promise: I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

Best review habit: Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	Turn missed items into a clear next step.
Standards Reference	See how Iowa Grade 3 standards connect to practice.	Understand the skills behind the questions.

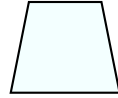
Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. That mix gives students practice with quick choices, careful reasoning, and short written answers.



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Quadrilateral

1)

This quadrilateral has two pairs of opposite sides that are parallel. Which name best describes this shape?

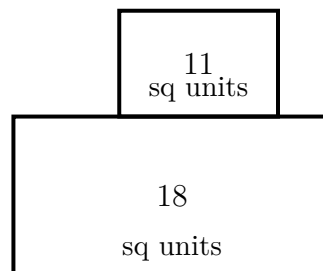
- A. Trapezoid C. Parallelogram
 B. Pentagon D. Hexagon

2) There are 9 students with 4 crayons each. How many crayons total?

3) Which multiplication fact helps you solve $32 \div 8$?

- A. $4 \times 8 = 32$ C. $8 \times 8 = 64$
 B. $5 \times 8 = 40$ D. $3 \times 8 = 24$

4) A composite shape has areas of 18 sq units and 11 sq units. Find the total area.



- A. 29 sq units C. 7 sq units
 B. 18 sq units D. 198 sq units



5) What is 7×90 ?

- A. 63 (forgot the zero) C. 79 (added the digits)
 B. 6300 (added two zeros) D. 630

6) Round 476 to the nearest 100.

- A. 400 C. 475
 B. 470 D. 500

7) Sam reads for 26 minutes starting at 6 : 19 PM. What time does Sam finish reading?

- A. 6 : 35 PM C. 6 : 45 PM
 B. 6 : 40 PM D. 6 : 50 PM

Dividing Almonds



Bag 1 Bag 2 Bag 3

8)

Ava divides 600 grams of almonds into 3 equal bags. How many grams are in each bag?

- A. 100 g C. 300 g
 B. 200 g D. 600 g

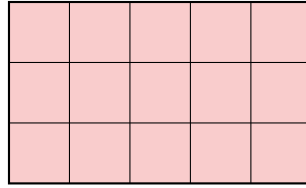
9) Olivia buys 4 bags of candy with 8 pieces in each bag. She eats 12 pieces. How many pieces of candy does she have left?

- A. 20 C. 32
 B. 25 D. 35



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10)



Count all unit squares in this grid. What is the total?

- A. 12 unit squares C. 14 unit squares
 B. 13 unit squares D. 15 unit squares

3 meters



11)

10 meters

A rectangular walkway is 10 meters long and 3 meters wide. What is the area of the walkway?

- A. 13 sq m C. 26 sq m
 B. 30 sq m D. 60 sq m

12) Lily and Mia are comparing rectangles. Lily's rectangle is 6 units long and 5 units wide. Mia's rectangle is 7 units long and 4 units wide. Who has the larger area?

- A. Mia C. They are equal
 B. Lily D. Cannot be determined



- 1) Each box holds 6 pencils. One box has 6 pencils. Two boxes have 12 pencils. Three boxes have 18 pencils.
How many pencils are in 5 boxes?
- A. 24 C. 36
 B. 42 D. 30
- 2) Two circles are identical. Circle X shows $\frac{3}{4}$ shaded gray. Circle Y shows $\frac{6}{8}$ shaded gray. Are the shaded parts the same size?
- A. They cannot be compared. C. Yes, they are equal.
 B. No, Circle Y is larger. D. No, Circle X is larger.
- 3) What is 586 rounded to the nearest 100?
- A. 500 C. 586
 B. 580 D. 600
- 4) Which shows the same product as 5×8 ?
- A. 5×7 C. 6×5
 B. 4×8 D. 8×5
- 5) Aiden buys 6 packs of trading cards with 4 cards in each pack. He loses 8 cards. How many cards does he have now?
- A. 16 C. 24
 B. 22 D. 32



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- 6) Add $375 + 248$ using the standard algorithm (aligning by place value).



- 7) A square frame is made of wood. Each side is 5 inches. If you wanted to cover the area inside the frame with paper, how much paper would you need?

- A. 10 square inches C. 25 square inches
 B. 20 square inches D. 5 square inches

- 8) A toy store has 7 shelves with 9 toys on each shelf. How many toys are on all the shelves?

- A. 70 toys C. 16 toys
 B. 56 toys D. 63 toys

- 9) If a quadrilateral has 4 equal sides but the angles are not all right angles, what is it?

- A. Rectangle C. Trapezoid
 B. Square D. Rhombus

2 cm



5 cm

- 10)

What is the area of the rectangle shown?

- A. 7 sq cm C. 12 sq cm
 B. 14 sq cm D. 10 sq cm



- 1) Marcus has 15 toy cars and his friend gives him 9 more. They divide all the cars equally among 3 children. Let m be the number of cars each child gets. Which equation is correct?

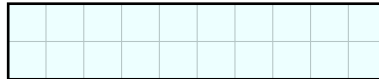
A. $m = (15 + 9) \div 3$

C. $m = (15 + 9) - 3$

B. $m = 15 + 9 \div 3$

D. $m = 15 \times 9 \div 3$

- 2) This grid shows a rectangle made of unit squares.



What is the total area in square units?

A. 12 sq units

C. 20 sq units

B. 18 sq units

D. 24 sq units

- 3) Ana looks at a circle divided into 8 equal parts. One part is shaded. Ana says the shaded part is $\frac{1}{4}$. Is she correct? Explain why or why not.

A. Yes, because $8 \div 2 = 4$

C. Yes, one part is always one-fourth

B. No, the shaded part is $\frac{1}{8}$

D. No, the shaded part is $\frac{1}{6}$

- 4) If $\frac{3}{4} = \frac{?}{8}$, what is the missing numerator?



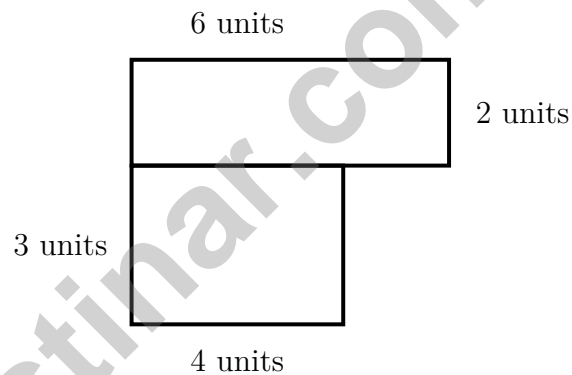
5) Ava ate $\frac{10}{2}$ of a pizza. How many whole pizzas did she eat?

- A. 2 C. 5
 B. 10 D. 1

6) A rectangle has width 4 units and length 5 units. It has 5 rows with 4 unit squares in each row. Using repeated addition: $4 + 4 + 4 + 4 + 4 = ?$

- A. 9 sq units C. 15 sq units
 B. 20 sq units D. 16 sq units

7) A floor plan shows an L-shaped room. One part is 4 units long and 3 units wide. The other part is 6 units long and 2 units wide. What is the total floor area?



- A. 24 sq units C. 12 sq units
 B. 18 sq units D. 36 sq units

8) A rectangle is covered by 4 rows of 8 unit squares. How many unit squares cover it?

- A. 12 unit squares C. 24 unit squares
 B. 32 unit squares D. 36 unit squares



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Practice Test Answer Keys

How to use this section with a Grade 3 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice C is correct.** **(3.G.A.1)** A quadrilateral with two pairs of parallel sides is called a parallelogram. A trapezoid has only one pair of parallel sides.
- The correct answer is 36.** **(3.OA.A.1)** $9 \times 4 = 36$.
- Choice A is correct.** **(3.OA.B.6)** Division is an unknown-factor problem. $32 \div 8 = \square$ is the same as finding $\square \times 8 = 32$, which gives $\square = 4$. Distractors B, C, D are off-by-one or incorrect products.
- Choice A is correct.** **(3.MD.C.7d)** Add the areas: $18 + 11 = 29$ square units. Choice B (only one part) and C (subtraction) are common errors.
- Choice D is correct.** **(3.NBT.A.3)** Multiply $7 \times 9 = 63$, then multiply by 10 to get 630: $7 \times 90 = (7 \times 9) \times 10 = 63 \times 10 = 630$.
- Choice D is correct.** **(3.NBT.A.1)** The tens digit is 7. Since $7 \geq 5$, round up: 476 rounds to 500.
- Choice C is correct.** **(3.MD.A.1)** $6 : 19 + 26 \text{ min} = 6 : 45 \text{ PM}$.
- Choice B is correct.** **(3.MD.A.2)** Divide: $600 \div 3 = 200$ g per bag.
- Choice A is correct.** **(3.OA.D.8)** Step 1: Total candy: $4 \times 8 = 32$ pieces. Step 2: Subtract eaten: $32 - 12 = 20$ pieces left. (Choice C is step 1 only.)
- Choice D is correct.** **(3.MD.C.5a)** The grid is 5 units wide and 3 units tall: $5 \times 3 = 15$ unit squares.
- Choice B is correct.** **(3.MD.C.7b)** Area = length \times width = $10 \times 3 = 30$ square meters.
- Choice B is correct.** **(3.MD.C.7)** Lily's area = $6 \times 5 = 30$ sq units. Mia's area = $7 \times 4 = 28$ sq units. $30 > 28$, so Lily's is larger.
- Choice A is correct.** **(3.NF.A.2)** Point X is at $\frac{1}{4}$, while Point Y is at $\frac{1}{8}$. Since $\frac{1}{4} = \frac{2}{8}$, Point X is farther from 0.
- Choice B is correct.** **(3.NF.A.3c)** Any whole number n equals $\frac{n}{1}$. So $6 = \frac{6}{1}$.
- Choices A and E are correct.** **(3.NF.A.3a)** A: $\frac{1}{2} = \frac{2}{4}$ (both represent one-half of an identical shape). E: $\frac{4}{8} = \frac{1}{2}$ (both represent one-half of an identical shape). B is false: $\frac{2}{3} \neq \frac{3}{4}$ (two-thirds \neq three-fourths). C is false: $\frac{1}{3} \neq \frac{2}{8}$ (one-third \neq one-quarter). D is false: $\frac{3}{6} = \frac{1}{2}$ but $\frac{2}{3}$ is different.
- Choice A is correct.** **(3.MD.B.3)** Count the symbols in the picture graph and multiply each count by the scale.
- Choice D is correct.** **(3.OA.A.4)** Use the inverse: $35 \div 5 = 7$. Check: $7 \times 5 = 35$.
- The correct answer is 0.** **(3.OA.D.9)** All numbers in this pattern are even because we're multiplying 4 (an even number) by 1, 2, 3, etc. Since 4 is even, every multiple of 4 is even. There are no odd numbers.
- Choice D is correct.** **(3.OA.A.2)** $18 \div 6 = 3$. The picture shows 6 equal groups, each with 3 items.
- Choice A is correct.** **(3.MD.B.4)** Each X represents one measurement. Three X's above $4\frac{1}{2}$ means three pencils have that length.
- Choice B is correct.** **(3.NF.A.1)** A whole divided into 6 equal sections has each section as $\frac{1}{6}$ (one-sixth).
- Choice B is correct.** **(3.NF.A.3)** $\frac{4}{8}$ and $\frac{1}{2}$ both equal half of a whole.
- Choice D is correct.** **(3.NBT.A.2)** Add: $312 + 289 = 601$. Ones: $2 + 9 = 11$ (write 1, carry 1). Tens: $1 + 8 + 1 = 10$ (write 0, carry 1). Hundreds: $3 + 2 + 1 = 6$.
- Choice B is correct.** **(3.MD.C.5b)** $7 \times 5 = 35$ square units.
- Choice C is correct.** **(3.OA.C.7)** The order does not matter in multiplication. $7 \times 8 = 56$ and $8 \times 7 = 56$.
- Choice A is correct.** **(3.NF.A.3d)** One half and two fourths cover equal areas in the bars. They are equivalent fractions.
- Choice C is correct.** **(3.NF.A.3b)** The denominator was multiplied by 2 (from 4 to 8). Multiply the numerator by 2: $3 \times 2 = 6$. So $\frac{3}{4} = \frac{6}{8}$.
- Choice D is correct.** **(3.MD.C.7c)** This equation uses subtraction instead of addition. The correct form is $6 \times (5 + 2) = 6 \times 5 + 6 \times 2$.
- Choice B is correct.** **(3.MD.C.6)** $3 \times 5 = 15$ unit squares.



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Hi, Math Athlete!

◇ 5 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

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- ✓ Data & Graphs
- ✓ Word Problems
- ✓ And More!



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$$\begin{array}{r} 7 \times 8 \\ = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ - 178 \\ \hline = 274 \end{array}$$



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