

6

Iowa ISASP

GRADE 3

MATH

PRACTICE TESTS

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



6 Full-Length
Practice Tests



Detailed Answer Keys
and Explanations



Master Skills.
Boost Scores.
Succeed!

6 Iowa ISASP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question practice labs for Grade 3 math: operations, 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 Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

To the Grade 3 Math Builder

This book gives you six practice labs for the Iowa ISASP. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Iowa brings rolling farms, fairgrounds, bike trails, and quiet river bends. Strong math uses that same care: read the task, select a strategy, build the solution, and check the pattern before choosing an operation.

Decode

Find the question, the units, and the useful numbers.

Design

Use an equation, array, number line, graph, or sketch.

Confirm

Make sure the answer matches the question.

Six-lab promise: I will work with patience, show useful thinking, and treat corrections as part of learning.

How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For Iowa students, each lab is a short route through rolling farms, fairgrounds, bike trails, and quiet river bends: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

Best review habit: A mistake is most useful when you can say why it happened and what you will do differently next time.



What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	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. This gives students practice with quick decisions, careful reading, and short written math answers for the Iowa ISASP path.

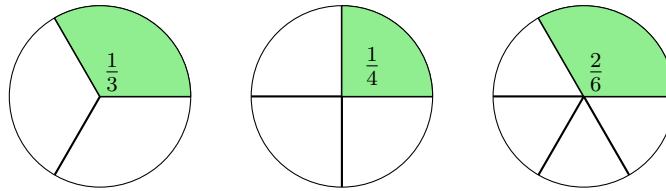


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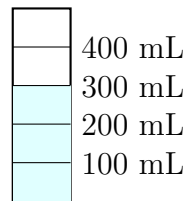
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1) Look at the pies. Which statement is correct?



- A. All three are equivalent C. The first and third are equivalent
 B. The first and second are equivalent D. None are equivalent

2)

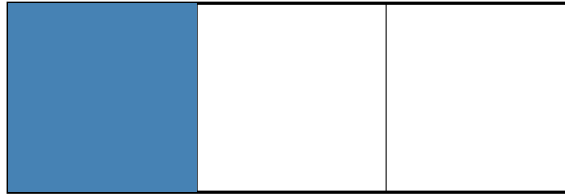


The beaker shows liquid to the 300 mL mark. If we pour out half the liquid, how much remains?

- A. 100 mL C. 200 mL
 B. 150 mL D. 300 mL
- 3) Which expression does NOT equal 20?
- A. 4×5 C. $10 + 10$
 B. 5×4 D. 3×6
- 4) There are 8 tables in the classroom. Each table has 4 chairs. How many chairs are there in total?
- A. 28 C. 36
 B. 30 D. 32



5) Look at the rectangle with 3 equal parts. One part is shaded blue.



What fraction is shaded?

- A. $\frac{1}{2}$
 B. $\frac{1}{3}$

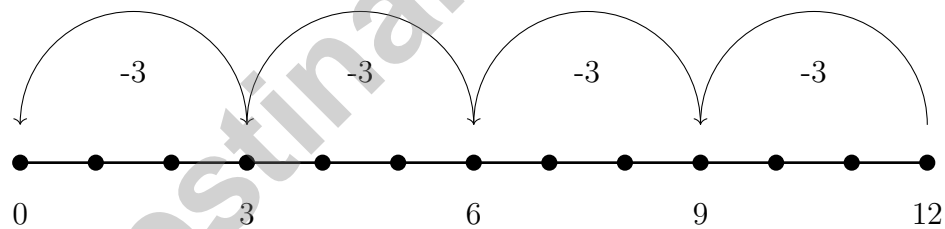
- C. $\frac{2}{3}$
 D. $\frac{3}{1}$

6) Which fraction equals $\frac{2}{4}$?

- A. $\frac{1}{2}$
 B. $\frac{2}{3}$

- C. $\frac{3}{4}$
 D. $\frac{1}{3}$

7) Look at the number line. It shows repeated subtraction of 3.



How many times do you subtract 3 from 12 to reach 0?

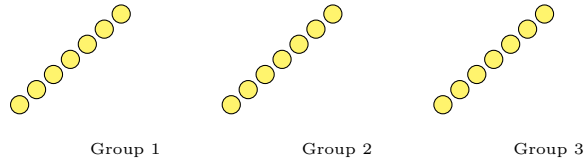
- A. 2 times
 B. 3 times

- C. 5 times
 D. 4 times



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- 8) A farmer has 3 groups of chickens with 7 chickens in each group. He sells 6 chickens. How many chickens does the farmer have left?

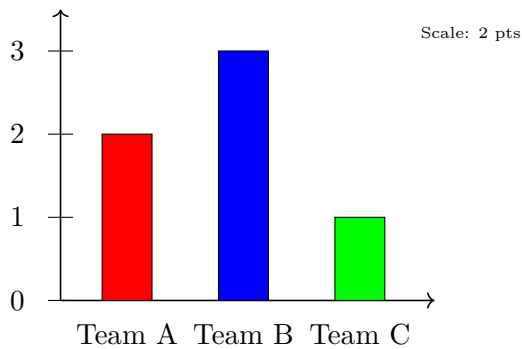


- A. 12 C. 21
 B. 27 D. 15
- 9) Look at this pattern: 10, 20, 30, 40.
What is the next number?
- A. 45 C. 55
 B. 60 D. 50
- 10) A rectangle has perimeter 30 inches and length 10 inches. Find the width.

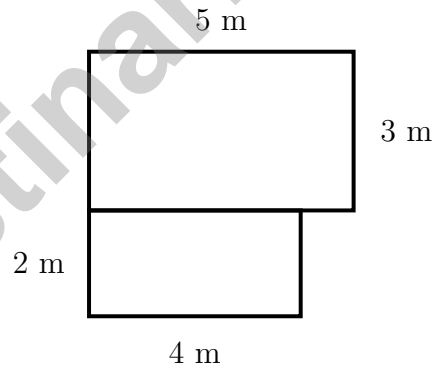
- 11) Noah marks fractions on a number line from 0 to 2 divided into eighths. He marks $\frac{8}{8}$ and $\frac{16}{8}$. Which is larger?
- A. They are equal C. $\frac{8}{8}$
 B. $\frac{16}{8}$ D. Neither; they are not on the line



1) A bar graph shows points scored. Scale is 2 points per unit. Read the three bars.



- A. Total points: 16
- B. Total points: 14
- C. Total points: 12
- D. Total points: 18
- 2) An L-shaped garden is divided into two rectangles. The top rectangle has length 5 m and width 3 m. The bottom rectangle has length 4 m and width 2 m. What is the total area of the garden?

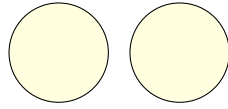


- A. 14 sq m
- B. 23 sq m
- C. 38 sq m
- D. 120 sq m



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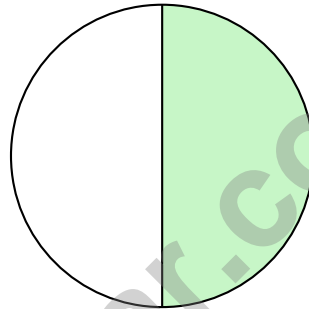
3) The shaded circles show $\frac{2}{1}$. Which picture matches?



Two whole circles

- A. Two circles, one shaded C. Two circles, both fully shaded
 B. One circle shaded D. One circle divided in half

4) Here is a circle divided into 2 equal parts.



Each part of the circle is what fraction of the whole circle?

- A. $\frac{1}{4}$ C. $\frac{2}{2}$
 B. $\frac{1}{2}$ D. $\frac{1}{3}$

5) Two students each divided a number line from 0 to 1 into equal parts. Maya used 4 parts; Jacob used 6 parts. Which unit fraction is bigger?

- A. $\frac{1}{4}$ (Maya's) C. They are the same size
 B. $\frac{1}{6}$ (Jacob's) D. Cannot compare without a picture



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

- 1) **Choice C is correct.** **(3.NF.A.3)** $\frac{1}{3}$ and $\frac{2}{6}$ show the same shaded amount.
- 2) **Choice B is correct.** **(3.MD.A.2)** Half of 300 mL is $300 \div 2 = 150$ mL.
- 3) **Choice D is correct.** **(3.OA.A.2)** $4 \times 5 = 20$, $5 \times 4 = 20$, and $10 + 10 = 20$. But $3 \times 6 = 18$, which is not 20.
- 4) **Choice D is correct.** **(3.OA.A.4)** Multiply: $8 \times 4 = 32$ chairs.
- 5) **Choice B is correct.** **(3.NF.A.1)** The rectangle has 3 equal parts, and 1 part is shaded. The unit fraction is $\frac{1}{3}$ (one-third).
- 6) **Choice A is correct.** **(3.NF.A.3)** Divide the numerator and denominator of $\frac{2}{4}$ by 2: $\frac{2 \div 2}{4 \div 2} = \frac{1}{2}$.
- 7) **Choice D is correct.** **(3.OA.A.2)** You subtract 3 four times: $12 - 3 - 3 - 3 - 3 = 0$. So $12 \div 3 = 4$.
- 8) **Choice D is correct.** **(3.OA.D.8)** Step 1: Total chickens: $3 \times 7 = 21$ chickens. Step 2: Subtract sold: $21 - 6 = 15$ chickens left.
- 9) **Choice D is correct.** **(3.OA.D.9)** Add 10 each time: $40 + 10 = 50$. This is skip counting by 10.
- 10) **The correct answer is 5 inches.** **(3.MD.D.8)** $30 = 2(10) + 2w = 20 + 2w$, so $2w = 10$ and $w = 5$ in.
- 11) **Choice B is correct.** **(3.NF.A.2)** $\frac{8}{8} = 1$ and $\frac{16}{8} = 2$. Since $2 > 1$, $\frac{16}{8}$ is larger.
- 12) **Choice B is correct.** **(3.OA.A.2)** Top part: $6 \times 3 = 18$. Bottom part: $6 \times 2 = 12$. Add the areas: $18 + 12 = 30$ square units.
- 13) **Choice A is correct.** **(3.NF.A.3)** Eli ate the whole bar because $\frac{3}{3} = 1$. Mia ate less than the whole bar, so Eli ate more.
- 14) **Choices A and B are correct.** **(3.MD.C.5)** A is correct: $2 \times 6 = 12$ square units. B is correct: $3 \times 4 = 12$ square units. C is wrong: $3 \times 3 = 9$. D is wrong: $5 \times 2 = 10$. E is wrong: $4 \times 2 = 8$.
- 15) **Choice D is correct.** **(3.OA.B.5)** The commutative property shows that switching the factors in a multiplication gives the same product: $3 \times 4 = 4 \times 3 = 12$.
- 16) **Choice C is correct.** **(3.NBT.A.1)** Numbers from 350 to 449 round to 400. The number 449 has tens $4 < 5$, so it rounds down to 400.
- 17) **Choice D is correct.** **(3.NF.A.2)** $\frac{2}{6} = \frac{1}{3}$. When Sam eats $\frac{2}{6}$ of Bar 2, he ate the same amount as $\frac{1}{3}$ of Bar 1.
- 18) **Choice C is correct.** **(3.MD.D.8)** Area = length \times width = $9 \times 5 = 45$ square inches.
- 19) **Choice A is correct.** **(3.NBT.A.2)** Reading the chart: 3 hundreds is 300, 5 tens is 50, 4 ones is 4. Total: $300 + 50 + 4 = 354$.
- 20) **The correct answer is $70\frac{1}{2}$.** **(3.MD.B.4)** The value with the most X marks is $70\frac{1}{2}$, with 3 X's.
- 21) **Choice D is correct.** **(3.OA.C.7)** $48 \div 6 = 8$ because $8 \times 6 = 48$. Six groups of 8 make 48.
- 22) **Choice A is correct.** **(3.MD.A.1)** From 9 : 15 to 10 : 15 is 60 minutes. The class ends at 10 : 05, 10 minutes earlier: $60 - 10 = 50$ minutes. Distractor C (just adds 1 hour), B (off-by-5), D (subtracts too much).
- 23) **Choice B is correct.** **(3.G.A.2)** 12 sixths divided into groups of 6 sixths (one whole) gives 2 wholes. $12 \div 6 = 2$.
- 24) **Choice B is correct.** **(3.G.A.2)** Five shaded parts out of 8 equal parts is $\frac{5}{8}$.
- 25) **The correct answer is 0 right angles.** **(3.G.A.1)** A trapezoid can have no right angles.
- 26) **Choice D is correct.** **(3.OA.B.6)** The missing number is the product: $6 \times 7 = 42$. This fact family contains $6 \times 7 = 42$, $7 \times 6 = 42$, $42 \div 6 = 7$, and $42 \div 7 = 6$.
- 27) **Choice C is correct.** **(3.MD.C.6)** $8 \times 4 = 32$ unit squares.
- 28) **Choice C is correct.** **(3.NF.A.2)** Moving right from $\frac{2}{4}$, the next tick mark shows $\frac{3}{4}$.
- 29) **Choice C is correct.** **(3.MD.B.3)** Rio: $8 \times 3 = 24$. Alex: $5 \times 3 = 15$. Fewer: $24 - 15 = 9$.
- 30) **Choice D is correct.** **(3.OA.A.3)** Area = length \times width = $9 \times 4 = 36$ cm².

Practice Test 2 Answers and Explanations



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

Jay Daie

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