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# 10 Iowa ISASP




# GRADE 3

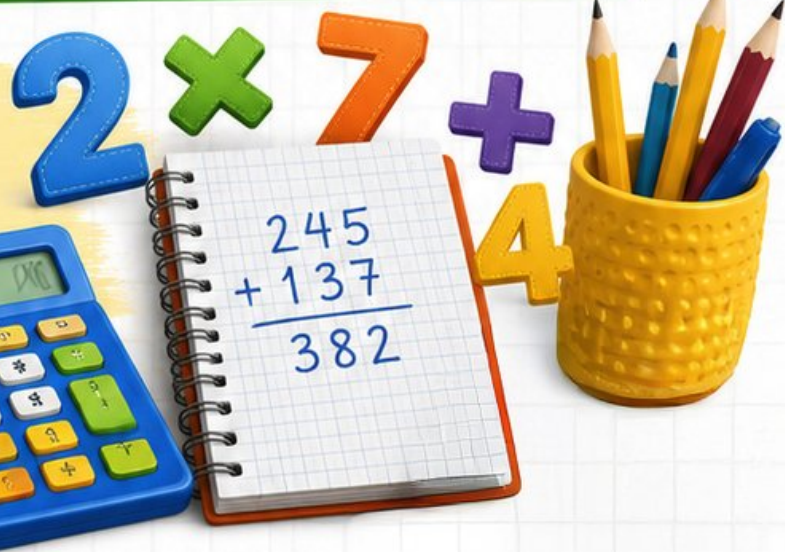
# MATH



# PRACTICE TESTS



- ✓ Complete Standards Review
  - ✓ Skill Practice
  - ✓ Word Problems and Answer Key
- 



★ ★ ★  
**PREPARE  
PRACTICE  
SUCCEED!**  
★ ★ ★

 Aligned to  
Grade 3 Math  
Standards

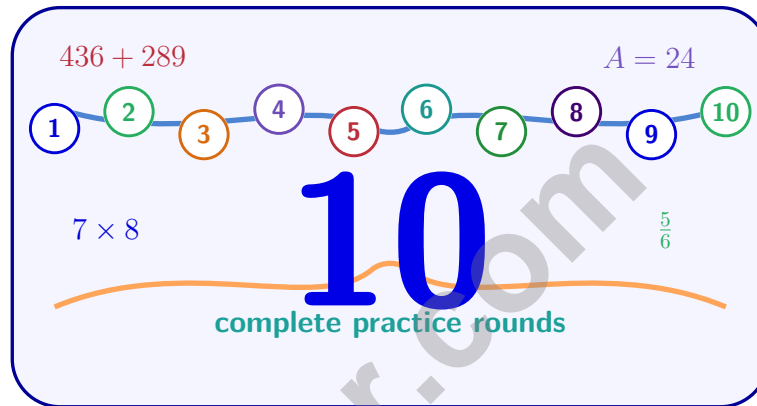
 Build Confidence  
and Master  
Math Skills

 Test-Taking  
Practice for  
Success

 Answer Key  
for Easy  
Review

# 10 Iowa ISASP Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Ten complete 30-question Grade 3 practice rounds for ISASP, built around farm fields, fairground patterns, and steady multiplication facts, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Iowa Math Explorer!

Ten steady rounds on the Hawkeye State math route

This book gives you ten full Grade 3 practice tests for ISASP. Each round uses farm fields, fairground patterns, and steady multiplication facts to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## Iowa Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

# How to Use This Book

A ten-session routine for Iowa ISASP review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Hawkeye State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

**Good rhythm:** Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



## What Is Inside?

Ten tests, 300 questions, and a full ISASP review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Iowa book.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.

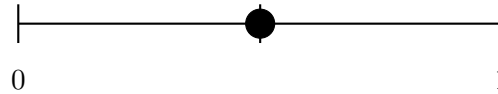


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& answers

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- 1) A point is marked on a number line from 0 to 1 with 2 equal parts. The point is at  $\frac{1}{2}$ . Which statement is true?

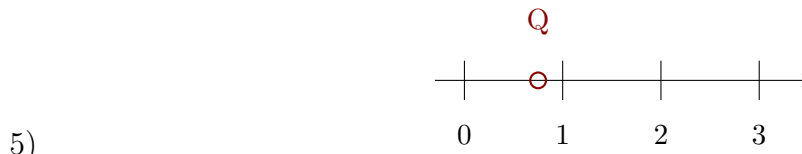


- A. It is closer to 0 than 1  
 B. It is closer to 1 than 0  
 C. It is halfway between 0 and 1  
 D. It is at 0
- 2) Which situation can be represented by  $12 \div 3$ ?
- A. 12 multiply by 3  
 B. 3 subtract from 12  
 C. How many groups of 3 make 12  
 D. 12 items shared equally among 3 groups
- 3) A science class measures the mass of four objects. Which is the lightest?

Object	Mass
Pencil	5 g
Eraser	10 g
Marble	7 g

- A. Pencil  
 B. Eraser  
 C. Marble  
 D. Pencil and Marble
- 4) A number line from 0 to 1 has 4 tick marks dividing it equally (not counting 0 and 1). Each part is  $\frac{1}{5}$ . What is true?
- A. There are 4 equal parts  
 B. There are 5 equal parts  
 C. There are 6 equal parts  
 D. There are 3 equal parts





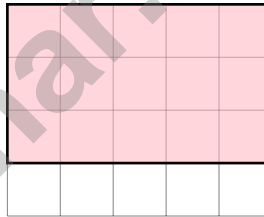
The number line from 0 to 3 is divided into 4 equal parts. What fraction of the distance from 0 to 3 is point  $Q$ ?

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

6) What is 429 rounded to the nearest 10?

- A. 420                       C. 430  
 B. 429                       D. 500

7) Count the square units in the shaded grid.

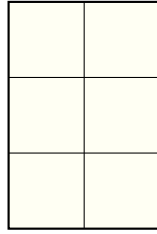


- A. 15 square units                       C. 20 square units  
 B. 10 square units                       D. 12 square units



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Each square is 1 ft × 1 ft



8)

The grid shows a shape made of unit squares measured in feet. How many unit squares fit in this shape?

- A. 3 unit squares                       C. 6 unit squares  
 B. 5 unit squares                       D. 8 unit squares

9) A classroom has 2 shelves. Each shelf has 9 books. How many books are on the shelves?

- A. 18                                       C. 20  
 B. 11                                       D. 7

10) Mia finished at 4 : 52 and started 39 minutes earlier. What time did she start?

11) Eli has  $\frac{8}{2}$  sheets of stickers. Each sheet is one whole. How many whole sheets does he have?

- A. 2                                       C. 8  
 B. 4                                       D. 6



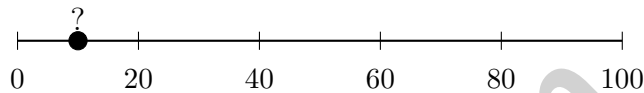
1) A store has 456 pencils. It sells 132 pencils. How many pencils are left?

- A. 314                       C. 334  
 B. 424                       D. 324

2) What is  $36 \div 6$ ?

- A. 5                               C. 7  
 B. 6                               D. 30

3)



The point on the number line is closer to which number when rounded to the nearest 10?

- A. 0                               C. 20  
 B. 30                               D. 10
- 4) Eli's drawing pad is 10 centimeters long and 6 centimeters wide. What is its area?

- A. 16 sq cm                       C. 50 sq cm  
 B. 32 sq cm                       D. 60 sq cm

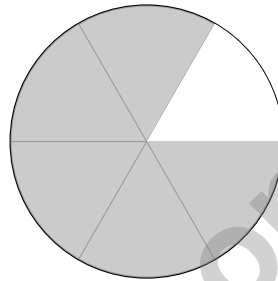
5) A bar graph shows items in a store. Pencils bar is 6 units (scale: 2 pencils per unit). Erasers bar is 4 units (scale: 2 erasers per unit). How many pencils and erasers are there in total?

- A. 20                               C. 12  
 B. 10                               D. 16



6) A circle is divided into 6 equal parts. What fraction is one part?

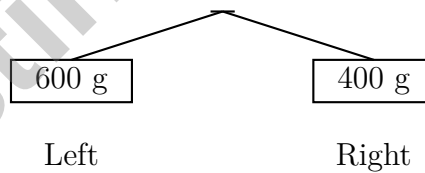
7) A cake is divided into 6 equal pieces. Ava takes one piece. Which fraction is left?



- A.  $\frac{1}{6}$   
 B.  $\frac{2}{6}$

- C.  $\frac{5}{6}$   
 D.  $\frac{6}{6}$

### Balance Scales



8)

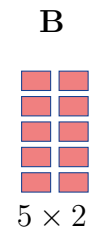
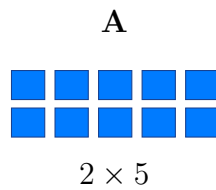
What is the difference in mass between the two sides?

- A. 100 g  
 B. 200 g  
 C. 400 g  
 D. 600 g

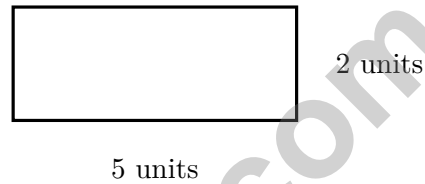


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1) What do arrays A and B show?



- |  |   |
|--|---|
| <input type="checkbox"/> A. Both arrays have 10 squares. | <input type="checkbox"/> C. Array B has 12 squares.             |
| <input type="checkbox"/> B. Array A has 7 squares.       | <input type="checkbox"/> D. The arrays show different products. |



2)

What is the area of this rectangle?

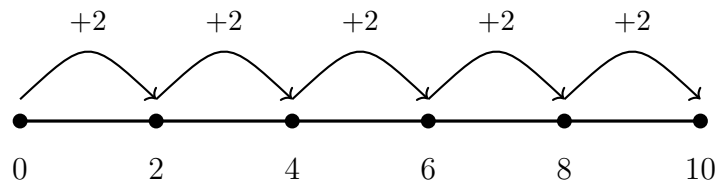
- |   |   |
|---|---|
| <input type="checkbox"/> A. 7 sq units  | <input type="checkbox"/> C. 12 sq units |
| <input type="checkbox"/> B. 10 sq units | <input type="checkbox"/> D. 15 sq units |

3) Ravi has 4 bags with 5 toys each and loses 8 toys. How many toys are left?



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4) Which division sentence is represented by the number line?



A.  $10 \div 5$

C.  $5 \times 2$

B.  $2 + 10$

D.  $10 \div 2$

5) Which is equivalent to  $\frac{1}{4}$ ?

A.  $\frac{2}{4}$

C.  $\frac{2}{8}$

B.  $\frac{1}{8}$

D.  $\frac{4}{8}$

6) A shape has two connected rectangles. Areas are 21 sq units and 18 sq units. What is the total area?

A. 3 sq units

C. 42 sq units

B. 39 sq units

D. 378 sq units

7) A garden is arranged in an array with 7 rows and 3 plants in each row. How many plants are in the garden?

A. 21

C. 10

B. 19

D. 24



## 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.2)**  $\frac{1}{2}$  divides the distance into two equal parts, so it is exactly in the middle.
- 2) **Choice D is correct.** **(3.OA.A.2)**  $12 \div 3$  asks “how many in each group when 12 items are shared equally among 3 groups?” Each group gets 4 items.
- 3) **Choice A is correct.** **(3.MD.A.2)** 5 g is the smallest (lightest) mass.
- 4) **Choice B is correct.** **(3.NF.A.1)** If each part is  $\frac{1}{5}$ , then there are 5 equal parts total.
- 5) **Choice D is correct.** **(3.NF.A.2)** Point Q is at the first tick of 4 equal divisions from 0 to 3. That is  $\frac{1}{4}$ .
- 6) **Choice C is correct.** **(3.NBT.A.1)** The ones digit is 9. Since  $9 \geq 5$ , round up: 429 rounds to 430.
- 7) **Choice A is correct.** **(3.MD.C.5)** Count: 5 units wide and 3 units tall.  $5 \times 3 = 15$  square units.
- 8) **Choice C is correct.** **(3.MD.C.6)** The rectangle is 2 feet wide and 3 feet tall:  $2 \times 3 = 6$  unit squares.
- 9) **Choice A is correct.** **(3.OA.A.3)** Multiply: 2 shelves  $\times$  9 books per shelf = 18 books.
- 10) **The correct answer is 4 : 13.** **(3.MD.A.1)**  $4 : 52 - 39$  minutes is 4 : 13.
- 11) **Choice B is correct.** **(3.G.A.2)**  $\frac{8}{2}$  means 8 halves. 2 halves make 1 whole, so  $8 \div 2 = 4$  wholes.
- 12) **Choice D is correct.** **(3.OA.B.5)** The identity property of multiplication says any number times 1 equals itself.  $6 \times 1 = 6$ .
- 13) **Choice B is correct.** **(3.MD.C.6)** This is a square:  $5 \times 5 = 25$  unit squares.
- 14) **Choices A and C are correct.** **(3.OA.C.7)** A:  $48 \div 6 = 8$  and  $8 \times 6 = 48$  match. B:  $35 \div 7 = 5$ , not 4. C:  $56 \div 8 = 7$  and  $7 \times 8 = 56$  match. D:  $30 \div 5 = 6$  but  $6 \times 5 = 30$ , not 25. E:  $45 \div 9 = 5$  but  $5 \times 9 = 45$ , not 40.
- 15) **Choice C is correct.** **(3.MD.C.5)** One part:  $10 \times 2 = 20$  sq units. Other part:  $4 \times 3 = 12$  sq units. Total:  $20 + 12 = 32$  sq units.
- 16) **The correct answer is 2.** **(3.NF.A.2)**  $\frac{1}{3}$  is equivalent to  $\frac{2}{6}$ .
- 17) **Choice C is correct.** **(3.MD.D.8)**  $7 \times 5 = 35$  square units.
- 18) **The correct answer is 525.** **(3.NBT.A.2)** Subtract to find the missing addend:  $781 - 256 = 525$ . Check:  $525 + 256 = 781$ .
- 19) **Choice C is correct.** **(3.MD.C.5)** 3 columns and 4 rows:  $3 \times 4 = 12$  unit squares.
- 20) **Choice D is correct.** **(3.MD.B.3)** Pile 1:  $4 \times 3 = 12$ . Pile 2:  $5 \times 3 = 15$ . Total:  $12 + 15 = 27$ .
- 21) **Choice C is correct.** **(3.MD.B.4)** Less than 4 ounces includes 3 and  $3\frac{1}{2}$ : that is  $2 + 4 = 6$  rocks.
- 22) **Choice C is correct.** **(3.MD.D.8)** Area = length  $\times$  width =  $5 \times 4 = 20$  square feet.
- 23) **Choice A is correct.** **(3.NF.A.1)** The circle is divided into 2 equal parts. One part is shaded, so the unit fraction is  $\frac{1}{2}$  (one-half).
- 24) **Choice B is correct.** **(3.OA.A.2)** Add the two areas:  $3 \times 6 = 18$  and  $3 \times 4 = 12$ , total is 30 square units.
- 25) **Choice B is correct.** **(3.MD.C.7)** Area =  $10 \times 2 = 20$  square meters.
- 26) **Choice D is correct.** **(3.OA.D.8)** Step 1: Remove damaged:  $80 - 20 = 60$  books. Step 2: Divide by shelves:  $60 \div 4 = 15$  books per shelf.
- 27) **Choice A is correct.** **(3.NF.A.3)** Sam ate  $\frac{1}{3}$ , which is equivalent to  $\frac{2}{6}$ .
- 28) **Choice A is correct.** **(3.OA.A.4)** Noah multiplies a number by 5 to get 45. This is a multiplication equation:  $\square \times 5 = 45$ , so the unknown is 9.
- 29) **Choice D is correct.** **(3.NBT.A.3)**  $7 \times 30 = 210$  (multiply  $7 \times 3 = 21$ , then multiply by 10). Quinn wrote 7 and 30 together as 730 instead. The correct answer is 210.
- 30) **Choice D is correct.** **(3.OA.D.9)** From 5 to 10 is +5; from 10 to 15 is +5; and so on. This pattern is the same as multiplying 5 by 1, 2, 3, 4, 5, 6 (the multiplication table for 5).

### Practice Test 2 Answers and Explanations



## Hi, Math Detective!

◇ You did such a great job! You finished 10 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](mailto:jay@testinar.com).

**Jay Daie**

Your Math Detective Helper

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