

9

# Iowa ISASP

## GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,  
WORD PROBLEMS, AND ANSWER KEY



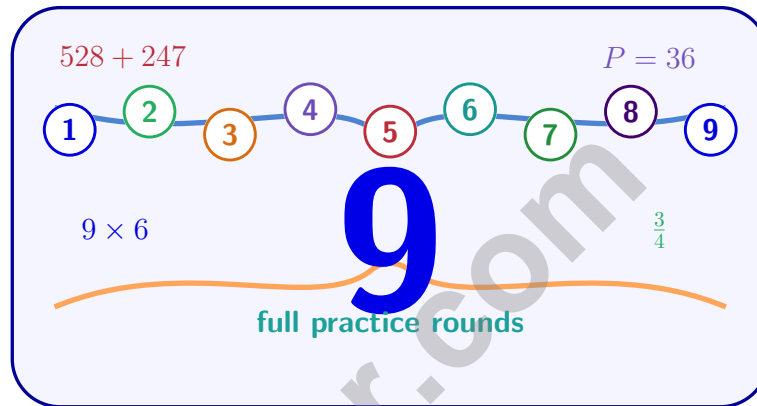
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FOR THE COMPREHENSIVE ASSESSMENT PROGRAM



# 9 Iowa ISASP Grade 3 Math Practice Tests

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



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Iowa, Start Your Nine-Round Math Rally

A focused Grade 3 map from first try to confident finish

This book gives you nine chances to practice like a thoughtful Iowa ISASP test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

Iowa has rolling farms, fairgrounds, bike trails, quiet river bends, and careful classroom work, where careful steps matter. Strong math follows that same idea: measure what the question asks, choose a useful tool, show the work, and model before moving on.

## Your Iowa Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

**Nine rounds is not about rushing. It is about building a math habit that stays strong.**

# How to Use This Book

A nine-session routine for clear Iowa review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

**Good rhythm:** Test one day, review the next day, then take the next test when your corrections feel clear. In Iowa, that steady routine turns nine tests into one organized prep plan.



# What Is Inside the Nine Tests?

Mixed Grade 3 practice with ISASP support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A Iowa standards reference and standard-code boxes in explanations

**Why mixed practice helps:** Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.



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& answers

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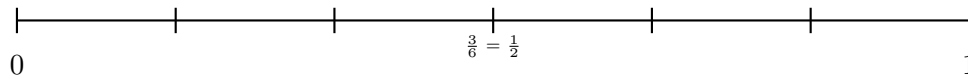
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1) The pattern for multiples of 6: 6, 12, 18, 24, 30, 36.

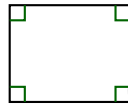
What is the rule?

- A. Add 5 each time                       C. Double the number  
 B. Skip count by 2                       D. Add 6 each time

2) Compare: Which fraction is GREATER than  $\frac{1}{2}$  on a number line?



- A.  $\frac{2}{6}$                                        C.  $\frac{4}{6}$   
 B.  $\frac{3}{6}$                                        D.  $\frac{1}{6}$



Right angles marked

3)

The corner marks indicate right angles. How many right angles does this quadrilateral have?

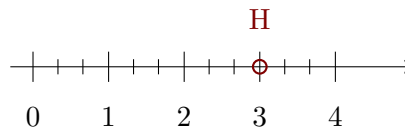
- A. 2     C. 4  
 B. 3     D. 5

4) Ava ate  $\frac{1}{2}$  of a pizza. Ben ate  $\frac{4}{8}$  of a pizza. Did they eat the same amount?

- A. Yes, they ate the same amount       C. No, Ben ate more  
 B. No, Ava ate more                       D. Cannot be determined



5)



The number line from 0 to 4 is divided into thirds. Point  $H$  is at the whole number 3. How many thirds from 0 to reach 3?

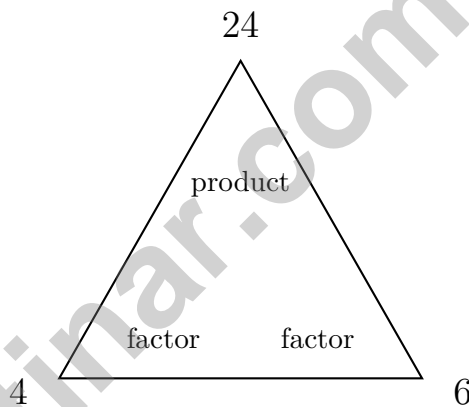
A.  $\frac{3}{3}$

B.  $\frac{6}{3}$

C.  $\frac{9}{3}$

D.  $\frac{12}{3}$

6) Look at the fact-family triangle below. If  $4 \times 6 = 24$ , what is  $24 \div 4$ ?



A. 4

B. 28

C. 24

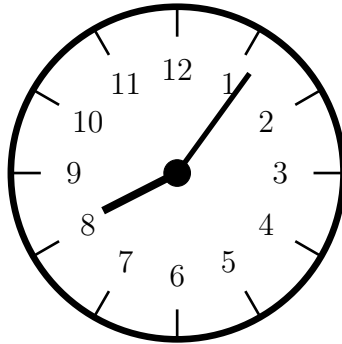
D. 6

7) A square has side length 6 inches. What is its area?



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8) What time does the clock show?



A. 8 : 06

B. 8 : 24

C. 2 : 06

D. 2 : 40

9) What is  $6 \times 50$ ?

A. 56

B. 65

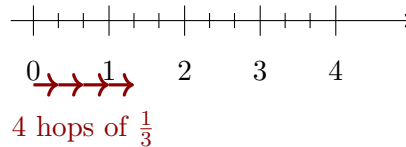
C. 300

D. 3000

10) Find  $4 \times 3 + 2 \times 2 + 2 \times 2$ .







5)

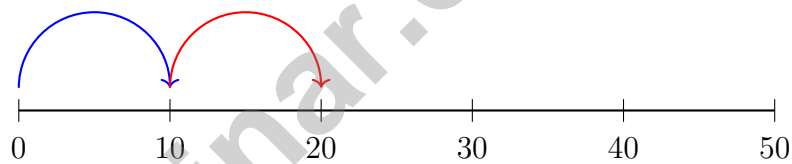
A frog makes 4 hops, each of size  $\frac{1}{3}$ , starting at 0 on a number line from 0 to 4 divided into thirds. Where does the frog end up?

- A.  $\frac{3}{3}$  (at 1)                       C.  $\frac{1}{3}$  (before 1)  
 B.  $\frac{4}{3}$  (between 1 and 2)         D.  $\frac{7}{3}$  (past 2)

6) Ava has two square tiles. One tile has an area of 9 square inches. The other has an area of 16 square inches. Which tile is smaller?

- A. The 9 square inch tile               C. Both tiles are the same size  
 B. The 16 square inch tile             D. Cannot be determined

7)



This number line shows skip counting. By how much are we jumping?

- A. By 5                                       C. By 15  
 B. By 20                                     D. By 10



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1) Which fraction is equal to the whole number 5?

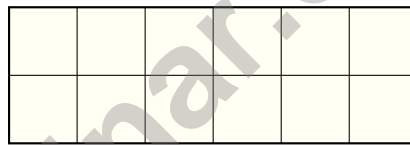
- A.  $\frac{5}{1}$   
 B.  $\frac{5}{5}$

- C.  $\frac{1}{5}$   
 D.  $\frac{5}{2}$

2) Write  $\frac{5}{4}$  as a mixed number.

3) How are squares and rectangles similar?

- A. Both have 4 sides and 4 right angles  
 B. Both have all equal sides  
 C. Both have no parallel sides  
 D. Both have 5 vertices



4)

How many unit squares are in this rectangle?



5) Which product is the greatest?

A.  $7 \times 40 = 280$

C.  $6 \times 50 = 300$

B.  $8 \times 30 = 240$

D.  $9 \times 20 = 180$

6) A number line shows 0 to 1 split into 3 equal parts. How many equal parts are between 0 and  $\frac{2}{3}$ ?

7) Eli eats breakfast at 7 : 33 AM. He eats lunch 3 hours and 17 minutes later. What time does Eli eat lunch?

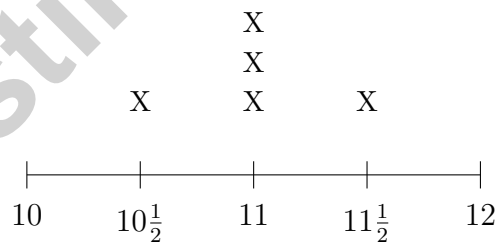
A. 10 : 30 AM

C. 11 : 00 AM

B. 10 : 45 AM

D. 10 : 50 AM

8) Eli's line plot shows string lengths in inches: 10,  $10\frac{1}{2}$ , 11,  $11\frac{1}{2}$ , 12.



How many strings are 11 inches long?

A. 1

C. 3

B. 2

D. 4



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& answers

## 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 D is correct.** **(3.OA.D.9)** From 6 to 12 is +6; from 12 to 18 is +6. The constant difference is 6.
- Choice C is correct.** **(3.NF.A.2)** On the number line,  $\frac{4}{6}$  is to the right of  $\frac{3}{6}$  (which equals  $\frac{1}{2}$ ), so  $\frac{4}{6} > \frac{1}{2}$ .
- Choice C is correct.** **(3.G.A.1)** The four corner marks each show a right angle. This shape is a rectangle with 4 right angles.
- Choice A is correct.** **(3.NF.A.3)**  $\frac{1}{2} = \frac{4}{8}$  because  $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}$ . Both Ava and Ben ate the same amount.
- Choice C is correct.** **(3.NF.A.2)** Point  $H$  at the whole number 3 is nine thirds from 0:  $\frac{9}{3} = 3$ .
- Choice D is correct.** **(3.OA.B.6)** In a fact-family triangle, the product is at the top and the factors are at the bottom. If  $4 \times 6 = 24$ , then  $24 \div 4 = 6$ . The factors are the answers when dividing.
- The correct answer is 36 square inches.** **(3.MD.C.7)** A square has equal sides. Area =  $6 \times 6 = 36$  square inches. You can also add:  $6 + 6 + 6 + 6 + 6 + 6 = 36$  (six rows of six).
- Choice A is correct.** **(3.MD.A.1)** The minute hand points just past 1 (at 6 minutes), and the hour hand is just past 8.
- Choice C is correct.** **(3.NBT.A.3)** Multiply  $6 \times 5 = 30$ , then add one zero:  $6 \times 50 = 300$ .
- The correct answer is 20 square units.** **(3.MD.C.5)**  $4 \times 3 = 12$ ,  $2 \times 2 = 4$ , and  $2 \times 2 = 4$ , so  $12 + 4 + 4 = 20$  square units.
- Choice D is correct.** **(3.OA.A.2)**  $21 \div 3 = 7$ . The picture shows 3 equal groups, each with 7 items.
- Choice A is correct.** **(3.OA.A.4)** Both  $6 \times 7 = 42$  and  $42 \div 6 = 7$  are in the same fact family.
- Choice B is correct.** **(3.MD.B.3)** Class A:  $5 \times 10 = 50$ . Class B:  $3 \times 10 = 30$ . Difference:  $50 - 30 = 20$ .
- Choices A and C are correct.** **(3.OA.D.8)** Multiply tables by chairs per table:  $9 \times 4 = 36$ . Then add:  $36 + 8 = 44$ . Choices A and C both correctly compute  $(9 \times 4) + 8 = 44$ . Choice B adds all three numbers (incorrect order). Choice D applies order of operations wrong. Choice E adds first then multiplies (wrong method).
- Choice D is correct.** **(3.NBT.A.2)** Round 268 to the nearest hundred: 300 (since  $268 > 250$ ). Round 305 to the nearest hundred: 300. Estimate:  $300 + 300 = 600$  miles. (Exact answer: 573 miles.)
- Choice A is correct.** **(3.NF.A.1)** When a whole is divided into 8 equal parts, one part is the unit fraction  $\frac{1}{8}$  (one-eighth).
- Choice D is correct.** **(3.G.A.2)** 6 thirds equals 2 wholes. Each whole has 3 thirds, so  $6 \div 3 = 2$  wholes.
- Choice D is correct.** **(3.OA.C.7)**  $54 \div 6 = 9$  because  $9 \times 6 = 54$ .
- Choice C is correct.** **(3.G.A.2)** One part out of four equal parts is  $\frac{1}{4}$ .
- Choice D is correct.** **(3.OA.A.2)** 5 days with 9 pages each day means 5 groups of 9. So  $5 \times 9 = 45$  pages.
- Choice C is correct.** **(3.NF.A.3)**  $\frac{2}{4}$  and  $\frac{1}{2}$  both equal half of a whole.
- Choice D is correct.** **(3.MD.D.8)** Area = length  $\times$  width =  $6 \times 4 = 24$  square meters.
- Choice B is correct.** **(3.NF.A.3)** The orange dot is positioned between the  $\frac{2}{3}$  mark and 1 on the number line, so it represents a fraction between  $\frac{2}{3}$  and 1. This fraction is  $\frac{5}{6}$ .
- Choice B is correct.** **(3.NF.A.1)** The second tick is at  $\frac{2}{4}$ , which is two unit fractions of size  $\frac{1}{4}$  each.
- Choice C is correct.** **(3.MD.C.6)** 6 units wide  $\times$  2 units tall = 12 unit squares.
- Choice A is correct.** **(3.OA.A.3)** Multiply: 2 groups  $\times$  9 items per group = 18 total.
- Choice B is correct.** **(3.MD.A.2)** Read the marking on the measuring cup: 200 mL.
- Choice C is correct.** **(3.NF.A.2)**  $\frac{1}{2} = \frac{3}{6}$  because both represent one-half of the ribbon.
- Choice C is correct.** **(3.MD.D.8)** Mia:  $3 \times 6 = 18$  square units. Jordan:  $2 \times 9 = 18$  square units. Different dimensions, same area—shows that tiling result depends on both dimensions, not just one.
- The correct answer is 700.** **(3.NBT.A.1)** The tens digit is 2. Since  $2 < 5$ , round down: 728 rounds to 700.

### Practice Test 2 Answers and Explanations



Star Player Pep Talk

Hi, Star Player!

◇ 9 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 9 tests. It's real now! ★

**Star Player Stats**

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

**Star tip:** on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

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 Coach

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Aligned to Standards



Created by Educators