

Illinois IAR Grade 3 Math Quizzes

Quick Topic Assessments with Answer Key

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QUIZ TIME!

Grade 3 Math Quizzes!

★ Welcome, Math Star! ★

This book is full of **quick math quizzes** to help you practice what you've learned!

Each quiz takes about **15 minutes** and covers one math topic. There are regular questions and a special **Bonus Challenge** at the end.

- ✓ Write your **name** and **date** at the top
- ✓ Read each question **carefully**
- ✓ Show your **work** when you can
- ✓ Try the **Bonus Challenge** — it's extra credit!
- ✓ Check your answers in the **Answer Key**

★ Show What You Know! ★

Every quiz is a chance to shine. You've got this!



★ Table of Contents ★

Here's what we'll explore together!

★ 1	Number Sense & Place Value	1
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Let's learn and have fun!



PREVIEW

CHAPTER

1

Number Sense & Place Value

★ *What's Inside* ★

Quiz 1: *Place Value: Ones, Tens, Hundreds* 3



PREVIEW



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 CHAPTER 1

Quiz 1

Place Value: Ones, Tens, Hundreds



 Name: _____

 Date: _____

 Score: _____ / 8

 **Instructions:** Read each question carefully. Show your work when needed. You have about **15 minutes**.

- 1 What number do these base-ten blocks show?



The number is: _____

- 2 Look at this place value chart. What is the **value** of the digit in the tens place?

H	T	O
5	8	2

☐ 2

☐ 8

☐ 80

☐ 500

- 3 What number is shown below?

$$600 + 30 + 9$$

Standard form: _____

- 4 Write 475 in expanded form.

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$



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- 5 Which number is **greater**? Write $>$, $<$, or $=$ in the circle.

482



428

- 6 True or False: These blocks show the number 250.



☐ True ☐ False

- 7 Match each number to its expanded form. Draw a line.

• 273

• $500 + 40 + 6$

• 546

• $200 + 70 + 3$

• 189

• $100 + 80 + 9$

★ Bonus Challenge ★

This is extra credit! It's okay if this one is tricky — give it your best try!

- 8 I am a 3-digit number. Use these clues to figure out what I am:

💡 **Clue 1:** My hundreds digit is 3 more than my ones digit.

💡 **Clue 2:** My tens digit is 0.

💡 **Clue 3:** My ones digit is 2.

I am the number: _____

★ How did you do? ★

😊 I got _____ out of _____ right!



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CHAPTER

2

Multiplication & Division

★ *What's Inside* ★

Quiz 2: Understanding Multiplication 7



PREVIEW



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 CHAPTER 3

Quiz 2

Understanding Multiplication

Name: _____

Date: _____

Score: _____ / 8

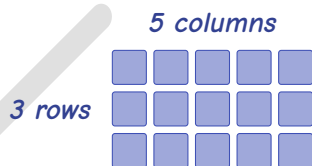
 **Instructions:** Read each question carefully. Show your work when needed. You have about 15 minutes.

- 1 Write a multiplication sentence for this picture:

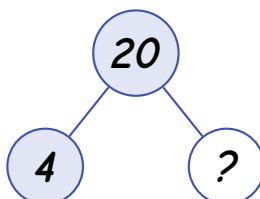


_____ × _____ = _____

- 2 Which multiplication fact does this array show? **Circle** your answer.

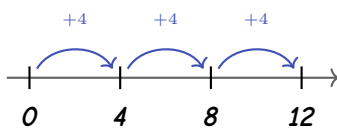

☐ 3×4
☐ 3×5
☐ 5×5
☐ 5×4

- 3 Look at this number bond. What is the missing number?


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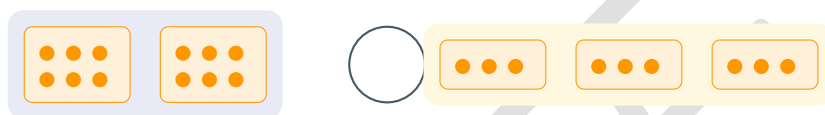

Missing number: _____

- 4 Use the number line to find 3×4 .



3×4 : _____

- 5 Look at the two groups of dots. Which side has **more**?



- 6 There are 5 fishbowls. Each fishbowl has 3 fish. How many fish are there in all?



_____ $\times$ _____ = _____

- 7 True or False: This array shows $4 \times 2 = 8$.



☐ True

☐ False



★ Bonus Challenge ★

This is extra credit! It's okay if this one is tricky — give it your best try!

- 8 Maria arranges her stickers in equal rows. She uses 24 stickers. Draw **two different** arrays that show 24 stickers, and write the multiplication sentence for each.

Array 1

Array 2

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = 24 \qquad \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = 24$$

★ How did you do? ★

😊 I got _____ out of _____ right!



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Answer Key & Explanations



★ Check Your Answers! ★

First try each quiz on your own, then look here to check.

Read the explanations to learn from any mistakes ★

Chapter 1

Quiz 1: Place Value: Ones, Tens, Hundreds

1 347

2 80

3 639

4 $400 + 70 + 5$

5 $> (482 > 428)$

6 False

7 See Explanation

8 502

Explanations

1 Count: 3 hundreds (300) + 4 tens (40) + 7 ones (7) = 347.

2 In 582, the digit 8 is in the tens place. Its value is $8 \times 10 = 80$. Don't confuse the digit (8) with its value (80).

3 Add the values: $600 + 30 + 9 = 639$. The hundreds digit is 6, the tens digit is 3, and the ones digit is 9.

4 Break apart each digit: 4 hundreds = 400, 7 tens = 70, 5 ones = 5. So $475 = 400 + 70 + 5$.



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5 Compare hundreds first: both have 4 hundreds. Compare tens: 8 tens $>$ 2 tens. So $482 > 428$.

6 The blocks show 2 hundreds, 5 tens, and 3 ones = 253, not 250. Count the ones carefully — there are 3, not 0.

7 Break each number into hundreds, tens, and ones. 273: 2 hundreds + 7 tens + 3 ones. 546: 5 hundreds + 4 tens + 6 ones. 189: 1 hundred + 8 tens + 9 ones.

8 Ones digit = 2 (Clue 3). Tens digit = 0 (Clue 2). Hundreds digit = $2 + 3 = 5$ (Clue 1). The number is 502.

Chapter 2

Quiz 2: Understanding Multiplication

1 $4 \times 3 = 12$

2 $3 \times 5 = 15$

3 5

4 12

5 $>$ (left side has more)

6 $5 \times 3 = 15$ fish

7 True

8 See Explanation

Explanations

1 There are 4 groups with 3 stars in each group. Groups $\times$ items in each group = $4 \times 3 = 12$.

2 The array has 3 rows and 5 columns. Rows $\times$ columns = $3 \times 5 = 15$.

3 $4 \times ? = 20$. Since $4 \times 5 = 20$, the missing number is 5.



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4 Each jump is $+4$. Count 3 jumps: $0 \rightarrow 4 \rightarrow 8 \rightarrow 12$. So $3 \times 4 = 12$.

5 Left: 2 groups of 6 = 12 dots. Right: 3 groups of 3 = 9 dots. $12 > 9$, so the left side has more.

6 5 fishbowls each with 3 fish: $5 \times 3 = 15$ fish in all.

7 The array has 2 rows and 4 columns. We can read it as $2 \times 4 = 8$ or $4 \times 2 = 8$. Both equal 8 because multiplication can be done in any order (commutative property).

8 Any two different arrays where rows $\times$ columns = 24. Examples: 3 rows of 8, or 4 rows of 6. Each must total 24 stickers.



Great job checking your work!

Keep practicing and you'll be a math star!



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THANK YOU

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