

# Illinois IAR Grade 4 Math Quizzes

*Quick Topic Assessments with Answer Key*

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# Grade 4 Math Quizzes

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*Each quiz covers one Grade 4 math topic with a mix of multiple-choice, true/false, and short-answer questions. Take a quiz after you study a topic to see how well you've learned it!*



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*See Your Score*



*Level Up!*

**“** Quizzes aren't about being perfect. They help you find what you know well and what needs a bit more practice! **”**



CHAPTER

1

# Multiply, Divide, and Patterns

## ★ What's Inside ★

Quiz 1: Multiplication as a Comparison ..... 3



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## CHAPTER 1


## Quiz 1

## Multiplication as a Comparison

Name: \_\_\_\_\_

Date: \_\_\_\_\_

★ Score: \_\_\_\_ / 8

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

- 1 Look at the bar model. Write a **multiplication comparison** sentence.



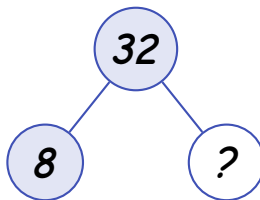
Comparison sentence: \_\_\_\_\_

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



- 7 is 2 times as many as 14                       14 is 7 times as many as 2  
 14 is 2 times as many as 7                       2 is 7 times as many as 14

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



Missing number: \_\_\_\_\_



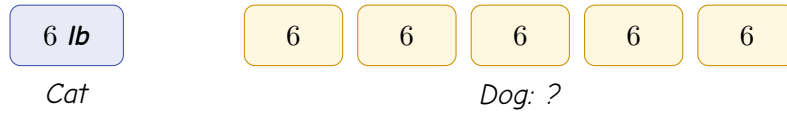
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- 4 A cat weighs 6 pounds. A dog weighs **5 times as much** as the cat. How much does the dog weigh? Write a multiplication equation and solve.



Equation and answer: \_\_\_\_\_

- 5 True or False: 24 is 6 times as many as 4.



True       False

- 6 Which side shows **more**? Circle  $>$ ,  $<$ , or  $=$ .



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rounded corners=6pt, inner sep=6pt, font=, **minimum width=2.5cm, minimum**

**height=1cm, ] (right) at (6.4, 0)**



;

### ★ Bonus Challenge ★

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

8 A goldfish costs \$3. A puppy costs \$27.

1. How many times as much does the puppy cost?
2. If a kitten costs **4 times as much** as the goldfish, how much does the kitten cost?
3. Which pet costs more — the puppy or the kitten?

Answers: \_\_\_\_\_

★ How did you do? ★

😊 I got \_\_\_\_\_ out of \_\_\_\_\_ right!



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CHAPTER

2

*Adding, Subtracting, Multiplying,  
and Dividing Whole Numbers*

★ *What's Inside* ★

Quiz 2: Add Whole Numbers ..... 8



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## CHAPTER 3

## Quiz 2

## Add Whole Numbers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

★ Score: \_\_\_\_\_ / 8

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

- 1 Solve  $2,476 + 3,859$ . Show your work.

 Show your work

- 2 What is  $5,308 + 2,947$ ? **Circle** the correct answer.

 7,255 8,255 8,245 7,245

- 3 True or False:  $4,563 + 2,891 = 7,454$ .

 True False

- 4 Find the missing number.

$$3,652 + \underline{\hspace{2cm}} = 8,000$$

Missing number: \_\_\_\_\_

- 5 Circle  $>$ ,  $<$ , or  $=$ .



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$1,275 + 3,846$



$2,490 + 2,510$

- 6 A school collected 1,847 cans in October and 2,365 cans in November. How many cans did they collect in all?

October: 1,847

November: 2,365

?

Total cans: \_\_\_\_\_

- 7 Solve  $36,508 + 17,694$ . Show your work.

Show your work

### ★ Bonus Challenge ★

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

- 8 Use the clues to find the two 3-digit numbers, then add them.

**Number A:** My hundreds digit is 4, my tens digit is double my hundreds digit, and my ones digit is 3.

**Number B:** My hundreds digit is half of 6, my tens digit is 0, and my ones digit is 7.

Number A = \_\_\_\_\_

Number B = \_\_\_\_\_

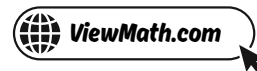
Sum = \_\_\_\_\_



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★ How did you do? ★

😊 I got \_\_\_\_\_ out of \_\_\_\_\_ right!

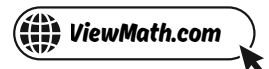
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# *Answer Key & Explanations*



## ★ 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: Multiplication as a Comparison

1 Jake has 3 times as many as Ella:  $3 \times 4 = 12$ .

2 14 is 2 times as many as 7

3 4

4  $5 \times 6 = 30$  pounds

5 True

6  $<$  (right side has more)

7 6 times as many

8 (1) 9 times as much; (2) \$12; (3) the puppy

#### Explanations

1 Compare the two bars:  $12 \div 4 = 3$ , so Jake has 3 times as many as Ella. The multiplication equation is  $3 \times 4 = 12$ .

2 The array has 2 rows and 7 columns, so  $2 \times 7 = 14$ . This means 14 is 2 times as many as 7.

3  $32 = ? \times 8$ . Since  $4 \times 8 = 32$ , the missing number is 4. This means 32 is 4 times as many as 8.

4 "5 times as much" means 5 groups of 6.  $5 \times 6 = 30$ . The dog weighs 30 pounds.



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5 Count the groups: 6 groups of 4 dots.  $6 \times 4 = 24$ . So yes, 24 is 6 times as many as 4.

6 Left:  $3 \times 5 = 15$ . Right:  $5 \times 4 = 20$ . Since  $15 < 20$ , the right side has more.

7 To find "how many times as many," divide:  $42 \div 7 = 6$ . Noah picked 6 times as many apples as Mia. Check:  $6 \times 7 = 42$  ✓.

8 (1)  $27 \div 3 = 9$ , so the puppy costs 9 times as much. (2)  $4 \times 3 = 12$ , the kitten costs \$12. (3)  $\$27 > \$12$ , so the puppy costs more.

## Chapter 2

### Quiz 2: Add Whole Numbers

1 6,335

2 8,255

3 True

4 4,348

5 >

6 4,212 cans

7 54,202

8 Number A = 483, Number B = 307, Sum = 790

### Explanations

1 Line up the digits by place value. Ones:  $6 + 9 = 15$ , write 5, carry 1. Tens:  $7 + 5 + 1 = 13$ , write 3, carry 1. Hundreds:  $4 + 8 + 1 = 13$ , write 3, carry 1. Thousands:  $2 + 3 + 1 = 6$ . The answer is 6,335.

2  $5,308 + 2,947$ : Ones:  $8 + 7 = 15$ , write 5, regroup 1. Tens:  $0 + 4 + 1 = 5$ . Hundreds:  $3 + 9 = 12$ , write 2, regroup 1. Thousands:  $5 + 2 + 1 = 8$ . The sum is 8,255.

3  $4,563 + 2,891$ : Ones:  $3 + 1 = 4$ . Tens:  $6 + 9 = 15$ , write 5, carry 1. Hundreds:  $5 + 8 + 1 = 14$ , write 4, carry 1. Thousands:  $4 + 2 + 1 = 7$ . The correct sum is 7,454 ✓.



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4 Subtract to find the missing addend:  $8,000 - 3,652 = 4,348$ . Check:  $3,652 + 4,348 = 8,000$  ✓.

5 Left side:  $1,275 + 3,846 = 5,121$ . Right side:  $2,490 + 2,510 = 5,000$ . Since  $5,121 > 5,000$ , the left side is greater.

6 Add the two months:  $1,847 + 2,365 = 4,212$ . The school collected 4,212 cans in all.

7  $36,508 + 17,694$ : Ones:  $8 + 4 = 12$ , write 2, carry 1. Tens:  $0 + 9 + 1 = 10$ , write 0, carry 1. Hundreds:  $5 + 6 + 1 = 12$ , write 2, carry 1. Thousands:  $6 + 7 + 1 = 14$ , write 4, carry 1. Ten-thousands:  $3 + 1 + 1 = 5$ . The answer is 54,202.

8 Number A: hundreds = 4, tens =  $4 \times 2 = 8$ , ones = 3, so  $A = 483$ . Number B: hundreds =  $6 \div 2 = 3$ , tens = 0, ones = 7, so  $B = 307$ . Sum:  $483 + 307 = 790$ .



**Great job checking your work!**

*Keep practicing and you'll be a math star!*



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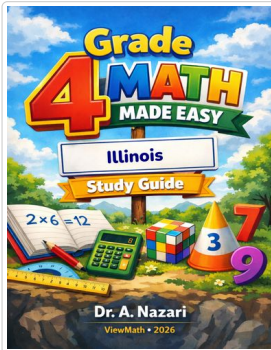


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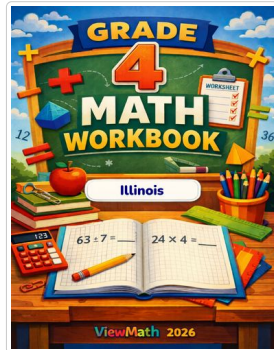
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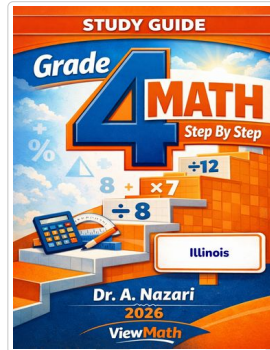
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Workbook



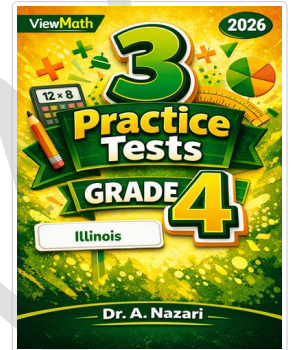
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Step-by-Step



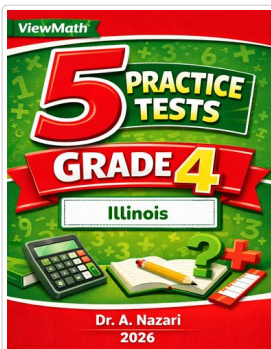
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3 Practice Tests



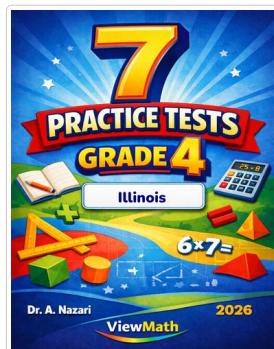
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5 Practice Tests



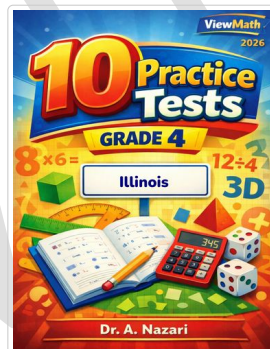
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7 Practice Tests



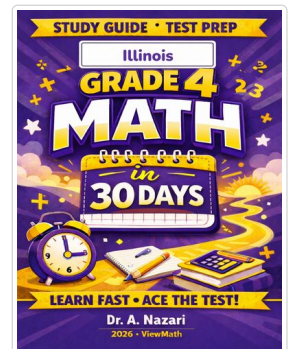
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10 Practice Tests



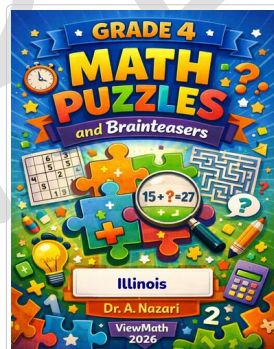
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Math in 30 Days



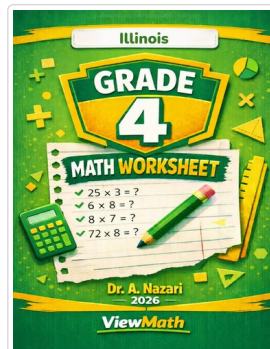
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