

# Illinois IAR Grade 4 Math Summer Review

*8-Week Core Review with Practice & Quizzes*

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# *Welcome to Summer Math Review!*

## 

*This 8-week plan reviews the Grade 4 math students already learned this year.*

### *What this book does*

-  *Reviews core Grade 4 topics a little at a time.*
-  *Helps students avoid forgetting important skills over summer.*
-  *Gives 6 focused problems on each lesson day.*
-  *Ends each week with a 10-question Friday quiz.*
-  *Uses answer explanations to show the thinking.*

*Review Grade 4 skills now, so Grade 5 starts with a stronger foundation.*

# Your 8-Week Summer Review Plan

Use this book four days a week, then take the quiz on Friday.

## Weekly Schedule

Week	Monday	Tuesday	Wednesday	Thursday	Friday
1	Day 1	Day 2	Day 3	Day 4	Quiz 1
2	Day 5	Day 6	Day 7	Day 8	Quiz 2
3	Day 9	Day 10	Day 11	Day 12	Quiz 3
4	Day 13	Day 14	Day 15	Day 16	Quiz 4
5	Day 17	Day 18	Day 19	Day 20	Quiz 5
6	Day 21	Day 22	Day 23	Day 24	Quiz 6
7	Day 25	Day 26	Day 27	Day 28	Quiz 7
8	Day 29	Day 30	Mixed Review	Final Review	Final Quiz

### For students

Read the Lesson Review first. Try all 6 problems before checking answers. If you miss one, read the explanation and fix your work.

### For parents and teachers

The daily pages are meant to be short and steady. They review Grade 4 skills so students do not forget core topics over summer and are more prepared for Grade 5. If a student struggles, use the answer explanation as the teaching step, then have the student correct the problem.

### Goal

By the end of 8 weeks, students will have completed 192 daily practice problems and 80 quiz questions, with review across the full Grade 4 math year.

# Summer Progress Tracker

Check off each day as you review Grade 4 skills for Grade 5.

Week	Mon	Tue	Wed	Thu	Fri Quiz
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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***Small practice adds up.***

*Four short days and one quiz each week help keep important Grade 4 math from fading over summer.*

WEEK

1

## *Multiplication, Word Problems, and Factors*

 *This Week's Days* 

*Day 1: Multiplication as a Comparison*

*Day 4: Factors, Multiples, and Primes*

*Week 1 Quiz: Operations and Number Relationships Check*



## Day 1 Multiplication as a Comparison

A multiplicative comparison tells how many times as large one amount is as another amount.

- “35 is 5 times as many as 7” means  $5 \times 7 = 35$ .
- In the pattern **large amount = number of groups  $\times$  small amount**, the words “times as many” point to multiplication.
- If you know the smaller amount and the comparison, multiply.
- If you know the larger amount and the comparison, divide to find the smaller amount.
- “Times as many” means multiply; “more than” means add or subtract.



### Practice

1. 6 times as many as 9 is \_\_\_\_\_.
2. 48 is 6 times as many as \_\_\_\_\_.
3. Write an equation: 72 is 8 times as many as 9. \_\_\_\_\_
4. Liam has 7 trading cards. Ava has 5 times as many trading cards as Liam. How many cards does Ava have?
5. A small bottle holds 12 ounces. A pitcher holds 4 times as much. Write and solve an equation for the pitcher.
6. Write a comparison sentence for  $9 \times 8 = 72$ . \_\_\_\_\_



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## Day 4 Factors, Multiples, and Primes

Factors, multiples, primes, and composites describe how whole numbers are built.

- A **factor** divides a number with no remainder. Factor pairs multiply to make the number.
- To list factors, test 1, 2, 3, and so on. Stop when the pairs repeat.
- A **multiple** is the result of skip-counting by a number.
- A **prime number** has exactly two factors: 1 and itself.
- A **composite number** has more than two factors.
- The number 1 is neither prime nor composite.



### Practice

1. List all factors of 24. \_\_\_\_\_
2. Find all factor pairs of 28. \_\_\_\_\_
3. Is 7 a factor of 56? Explain with a multiplication fact.
4. List the first five multiples of 9. \_\_\_\_\_
5. Is 31 prime or composite? \_\_\_\_\_
6. I am greater than 20 and less than 30. I am a multiple of both 4 and 6. What number am I?



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WEEK

8

*Geometry, Symmetry,  
and Final Grade 4 Review*

 *This Week's Days* 

*Day 29: Classify Shapes*



## Day 29 Classify Shapes

Classify shapes by attributes and shape families.

- A polygon is closed and made only of straight sides.
- Triangles have 3 sides; quadrilaterals have 4.
- Pentagon = 5, hexagon = 6, octagon = 8, decagon = 10 sides.
- Triangles can be acute, right, or obtuse.
- A square is also a rectangle, rhombus, parallelogram, and quadrilateral.



### Practice

1. How many sides does a hexagon have? \_\_\_\_\_
2. A shape has 4 equal sides and 4 right angles. What is it?
3. True or false: Every rectangle is a parallelogram.  True  False
4. True or false: Every parallelogram is a rectangle.  True  False
5. A triangle has angles  $35^\circ$ ,  $60^\circ$ , and  $85^\circ$ . What type of triangle is it?
6. A quadrilateral has 2 pairs of parallel sides and all sides equal, but no right angles. What is it?



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## ★ *Check Your Answers!* ★

*Try each problem first, then look here to check your work.*

*It's OK to make mistakes — that's how we learn* ★



## Week 1 Day 1: Multiplication as a Comparison

### Answer Key

1 54

2 8

3  $8 \times 9 = 72$ 

4 35 cards

5  $4 \times 12 = 48$ ; 48 ounces

6 72 is 9 times as many as 8.

### Explanations

1 The words “times as many” tell you to multiply the comparison number by the smaller amount. Compute  $6 \times 9 = 54$ , so 54 is 6 times as many as 9.

2 Here the larger amount is known, so use division to find the smaller amount. Since  $48 \div 6 = 8$ , 48 is 6 times as many as 8.

3 The comparison number is 8 and the smaller amount is 9. Multiplying them gives the larger amount, so the equation is  $8 \times 9 = 72$ .

4 Ava’s amount is compared to Liam’s amount with “5 times as many,” so multiply.  $5 \times 7 = 35$ , which means Ava has 35 trading cards.

5 The pitcher is the larger amount because it holds 4 times as much as the bottle. Multiply  $4 \times 12$  to get 48 ounces.

6 A multiplication equation can be read as a comparison by making the product the larger amount. Since  $9 \times 8 = 72$ , one correct sentence is “72 is 9 times as many as 8.”

## Week 1 Day 4: Factors, Multiples, and Primes

### Answer Key



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1 1, 2, 3, 4, 6, 8, 12, 24

2 (1, 28), (2, 14), (4, 7)

3 Yes;  $7 \times 8 = 56$ .

4 9, 18, 27, 36, 45

5 Prime

6 24

**💡 Explanations**

1 Factor pairs for 24 are  $1 \times 24$ ,  $2 \times 12$ ,  $3 \times 8$ , and  $4 \times 6$ . Listing every number in those pairs gives all the factors of 24.

2 A factor pair multiplies to the target number. The products  $1 \times 28$ ,  $2 \times 14$ , and  $4 \times 7$  make 28, and then the pairs begin to repeat.

3 A number is a factor if it divides the target evenly. Since  $7 \times 8 = 56$ , 7 is one factor of 56.

4 Multiples of 9 come from skip-counting by 9 or multiplying 9 by whole numbers.  $9 \times 1$  through  $9 \times 5$  gives 9, 18, 27, 36, 45.

5 A prime number has exactly two factors, 1 and itself. The number 31 is not divisible evenly by 2, 3, 4, or 5, so its only factors are 1 and 31.

6 A number that is a multiple of both 4 and 6 must appear in both skip-counting lists. Between 20 and 30, 24 is in both lists because  $4 \times 6 = 24$  and  $6 \times 4 = 24$ .

**📅 Week 1 Quiz: Operations and Number Relationships Check****✔ Answer Key**

1

A

2

54

3

9 feet

4

28 more points

5

37 students

6

78 seats

7

(1, 36), (2, 18), (3, 12), (4, 9), (6, 6)

8

A

9

True

10

63 flowers



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 **Explanations**

- 1 The words "7 times as many as 8" mean 7 groups of 8. Multiplying  $7 \times 8$  gives 56, so choice A matches the sentence.
- 2 A "times as many" comparison uses multiplication when the smaller amount is known. This means 9 equal groups of 6, and  $9 \times 6 = 54$ .
- 3 The rope is the larger amount and is 8 times the cord length. Divide  $72 \div 8 = 9$ , so the cord is 9 feet long.
- 4 First find Lena's points:  $3 \times 14 = 42$ . The question asks how many more, so subtract  $42 - 14 = 28$ .
- 5 First multiply to count the students at tables:  $5 \times 6 = 30$ . Then add the 7 students on the carpet, so  $30 + 7 = 37$ .
- 6 First find the total number of seats:  $5 \times 18 = 90$ . Subtract the empty seats,  $90 - 12 = 78$ , so 78 seats are filled.
- 7 Factor pairs multiply to make 36. Testing numbers in order gives  $1 \times 36$ ,  $2 \times 18$ ,  $3 \times 12$ ,  $4 \times 9$ , and  $6 \times 6$  before the pairs repeat.
- 8 A prime number has exactly two factors. The number 29 is not divisible evenly by 2, 3, 4, or 5, so its only factors are 1 and 29.
- 9 Multiples of 7 come from skip-counting by 7. The first four nonzero multiples are  $7 \times 1$ ,  $7 \times 2$ ,  $7 \times 3$ , and  $7 \times 4$ , which are 7, 14, 21, 28.
- 10 Find each group of rows first:  $6 \times 8 = 48$  flowers and  $3 \times 5 = 15$  flowers. Add the two parts,

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$48 + 15 = 63$ , so 63 flowers are planted.

## Week 8 Day 29: Classify Shapes

### Answer Key

1 6 sides

2 Square

3 True

4 False

5 Acute triangle

6 Rhombus

### Explanations

1 Polygon names tell the number of straight sides. The prefix hex- means 6, so a hexagon has 6 sides.

2 A square has all sides equal and all angles right. It is the special quadrilateral that is both a rectangle and a rhombus.

3 A parallelogram has two pairs of parallel sides. Rectangles have two pairs of parallel sides, so every rectangle is a parallelogram.

4 A rectangle must have four right angles. A parallelogram can have slanted angles, so not every parallelogram is a rectangle.

5 A triangle is acute when all three angles are less than  $90^\circ$ . Since  $35^\circ$ ,  $60^\circ$ , and  $85^\circ$  are all less than  $90^\circ$ , it is acute.

6 A rhombus has four equal sides. It does not need right angles, so this shape is a rhombus rather than a square.



Great job checking your work!



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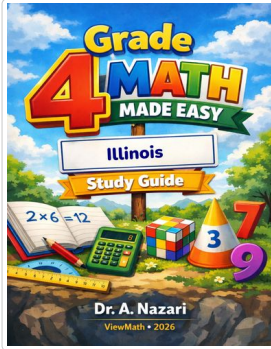


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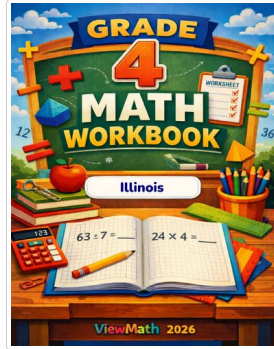
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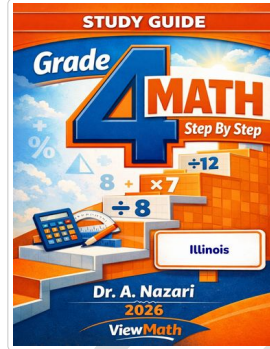
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Workbook



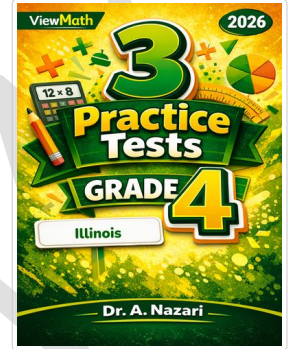
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Step-by-Step



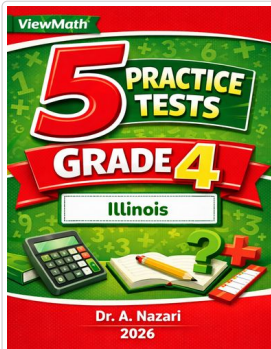
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3 Practice Tests



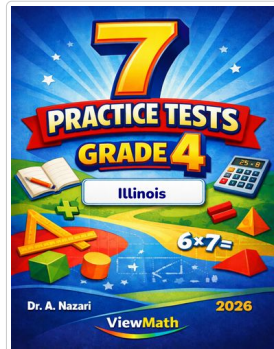
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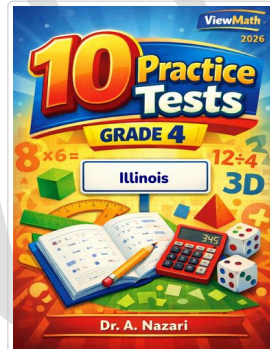
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7 Practice Tests



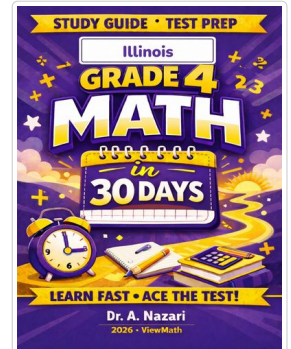
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10 Practice Tests



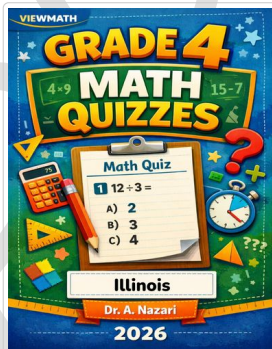
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Math in 30 Days



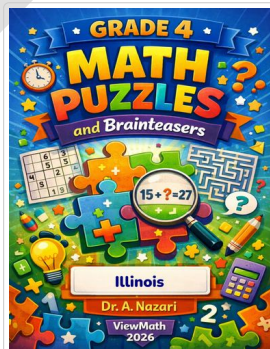
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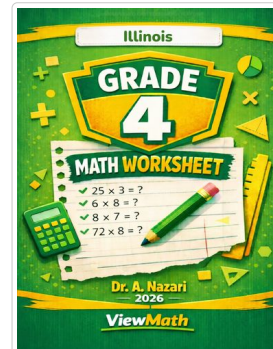
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