Cliftondale Elementary School

Kindergarten Math Bee Study Guide

Note to Parents & Guardians

This study guide outlines the skills that may be presented during the upcoming Math Bee. While rounds are subject to change, the core math skills will remain consistent. Students are encouraged to build fluency through a variety of study strategies at home and in class.

Please note:
On the day of the Math Bee, only mental math will be used—no paper, pencil, or calculators.

To best prepare, students should:

- **Focus on mastering the skills listed for their current grade level**
- **Also review skills from one grade level above to challenge themselves**

Thank you for supporting your child's math journey. We look forward to a fun and exciting event that celebrates learning and growth!

Round 1: Subitizing (5 seconds per question)

Goal: Quickly recognize how many objects are in a group without counting.

Practice Ideas:

- Flash dot cards (like dice patterns)
- Use ten frames with different dot arrangements
- Show fingers quickly and ask "How many?"

Example Questions:

- Show 5 dots – "How many?"
- Show 3 fingers – "How many?"

Round 2: Identifying Before & After (5 seconds per question)

Goal: Know what number comes before or after a given number.

Practice Ideas:

- Use number lines
- Ask "What comes before 6?" or "What comes after 4?"

Example Questions:

- What comes before 8?
- What comes after 2?

Round 3: Addition (10 seconds per question)

Goal: Add numbers up to 10.

Practice Ideas:

- Use counters, fingers, or pictures
- Practice with number bonds

Example Questions:

- What is 3 + 2?
- What is 5 + 4?

Round 4: Subtraction (7 seconds per question)

Goal: Subtract numbers up to 10.

Practice Ideas:

- Use objects to take away
- Practice with number stories

Example Questions:

- What is 5 – 2?
- What is 7 – 3?

Round 5: Mixed Addition & Subtraction (5 seconds per question)

Goal: Decide whether to add or subtract.

Practice Ideas:

- Mix flash cards with + and –
- Use simple word problems

Example Questions:

- What is 4 + 1?
- What is 6 – 2?

Round 6: Number Sequences (10 seconds per question)

Goal: Recognize and continue number patterns.

Practice Ideas:

- Fill in missing numbers
- Count forward and backward

Example Questions:

- 1, 2, __, 4
- 5, 6, 7, __

Round 7: Skip Counting (7 seconds per question)

Goal: Count by 2s, 5s, and 10s.

Practice Ideas:

- Use songs and chants
- Practice with number charts

Example Questions:

- Count by 10s: 10, 20, __
- Count by 5s: 5, 10, __

Round 8: Skip Counting (Advanced) (5 seconds per question)

Goal: Faster skip counting with less support.

Practice Ideas:

- Timed drills
- Fill in missing numbers in skip counting patterns

Example Questions:

- 2, 4, 6, __
- 10, 20, __

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1st Grade Math Bee Study Guide

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Round 1: Doubles Addition (7 seconds per question)

Goal: Quickly recall doubles facts (e.g., 2 + 2, 5 + 5).

Practice Ideas:

- Use flashcards with doubles facts
- Chant doubles facts as a song or rhyme

Example Questions:

- What is 4 + 4?
- What is 7 + 7?

Round 2: Skip Counting (5 seconds per question)

Goal: Count by 2s, 5s, and 10s up to 100.

Practice Ideas:

- Use number charts
- Practice with movement (e.g., clapping or jumping)

Example Questions:

- Count by 5s: 5, 10, __
- Count by 2s: 2, 4, __

Round 3: Missing Addends (7 seconds per question)

Goal: Find the missing number in an addition sentence.

Practice Ideas:

- Use number bonds
- Practice with part-part-whole models

Example Questions:

- ___ + 3 = 7
- 5 + ___ = 9

Round 4: Subtraction Facts (7 seconds per question)

Goal: Recall subtraction facts within 20.

Practice Ideas:

- Use counters or number lines
- Practice with flashcards

Example Questions:

- What is 9 – 4?
- What is 12 – 7?

Round 5: Addition Facts (5 seconds per question)

Goal: Recall basic addition facts within 20.

Practice Ideas:

- Use timed drills
- Practice with dice or dominos

Example Questions:

- What is 6 + 3?
- What is 8 + 5?

Round 6: Addition and/or Subtraction Facts (5 seconds per question)

Goal: Decide whether to add or subtract and solve quickly.

Practice Ideas:

- Mix flashcards with + and –

- Use simple word problems

Example Questions:

- What is 7 – 2?
- What is 4 + 6?

Round 7: Addition Facts with 3 Addends (10 seconds per question)

Goal: Add three numbers together.

Practice Ideas:

- Use colored counters to group numbers
- Practice with number sentences

Example Questions:

- What is 2 + 3 + 4?
- What is 5 + 1 + 2?

Round 8: Subtraction and/or Addition Facts (5 seconds per question)

Goal: Solve mixed addition and subtraction problems.

Practice Ideas:

- Use flashcards with both operations
- Practice with quick mental math

Example Questions:

- What is 10 – 3?
- What is 6 + 2?

Round 9: Two-Step Addition and Subtraction Equations (5 seconds per question)

Goal: Solve problems with two steps.

Practice Ideas:

- Use number stories
- Practice solving step-by-step

Example Questions:

- 2 + 3 – 1 = ?

- 5 + 4 – 2 = ?

Round 10: Missing Addends (5 seconds per question)

Goal: Find the missing number in an equation.

Practice Ideas:

- Use number bonds and fact families
- Practice with fill-in-the-blank problems

Example Questions:

- ___ + 6 = 10
- 3 + ___ = 8

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2nd Grade Math Bee Study Guide

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Round 1: Addition Facts (7 seconds per question)

Goal: Solve basic addition facts up to 20.

Practice Ideas:

- Use flashcards or apps for timed drills
- Practice with number bonds and fact families

Example Questions:

- What is 9 + 6?
- What is 7 + 8?

Round 2: Skip Counting (5 seconds per question)

Goal: Count by 2s, 5s, 10s, and 100s.

Practice Ideas:

- Use number charts and skip counting songs
- Practice counting forward and backward

Example Questions:

- Count by 5s: 5, 10, __
- Count by 10s: 30, 40, __

Round 3: Missing Addends (7 seconds per question)

Goal: Find the missing number in an addition equation.

Practice Ideas:

- Use part-part-whole models
- Practice with fill-in-the-blank equations

Example Questions:

- ___ + 7 = 15
- 6 + ___ = 14

Round 4: Subtraction Facts (7 seconds per question)

Goal: Solve subtraction facts within 20.

Practice Ideas:

- Use number lines and counters
- Practice with flashcards and subtraction stories

Example Questions:

- What is 13 – 6?
- What is 18 – 9?

Round 5: Addition Facts (5 seconds per question)

Goal: Solve addition facts quickly and accurately.

Practice Ideas:

- Use timed drills and games
- Practice mental math strategies

Example Questions:

- What is 4 + 9?
- What is 6 + 7?

Round 6: Subtraction and/or Addition Facts (5 seconds per question)

Goal: Solve mixed operation problems.

Practice Ideas:

- Use flashcards with both + and –

- Practice identifying the operation before solving

Example Questions:

- What is 12 – 5?
- What is 8 + 6?

Round 7: Addition Facts with 3 Addends (7 seconds per question)

Goal: Add three numbers together.

Practice Ideas:

- Use colored counters or number sentences
- Practice grouping numbers to make 10

Example Questions:

- What is 3 + 4 + 5?
- What is 6 + 2 + 1?

Round 8: Subtraction and/or Addition Facts (5 seconds per question)

Goal: Solve mixed facts quickly.

Practice Ideas:

- Use flashcards and quick quizzes
- Practice with real-life word problems

Example Questions:

- What is 10 – 3?
- What is 5 + 7?

Round 9: 2-Step Number Sentences (5 seconds per question)

Goal: Solve problems with two steps.

Practice Ideas:

- Use number stories and visual models
- Practice solving step-by-step equations

Example Questions:

- 3 + 4 – 2 = ?

- 6 + 2 + 1 = ?

Round 10: Missing Addend (5 seconds per question)

Goal: Find the missing number in an equation.

Practice Ideas:

- Use number bonds and fact families
- Practice with fill-in-the-blank problems

Example Questions:

- ___ + 5 = 12
- 7 + ___ = 15

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3rd Grade Math Bee Study Guide

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Round 1: Addition Facts (5 seconds per question)

Goal: Solve basic addition facts quickly.

Practice Ideas:

- Use flashcards or apps for timed drills
- Practice mental math strategies (e.g., making 10)

Example Questions:

- What is 8 + 7?
- What is 6 + 9?

Round 2: Subtraction Facts (5 seconds per question)

Goal: Solve basic subtraction facts quickly.

Practice Ideas:

- Use number lines or counters
- Practice fact families (e.g., 9 – 4 = 5 because 4 + 5 = 9)

Example Questions:

- What is 15 – 6?
- What is 12 – 8?

Round 3: Multiplication Facts (7 seconds per question)

Goal: Recall multiplication facts up to 12 × 12.

Practice Ideas:

- Use skip counting and multiplication songs
- Practice with flashcards and multiplication charts

Example Questions:

- What is 6 × 4?
- What is 9 × 3?

Round 4: 2-Digit Addition & Subtraction (7 seconds per question)

Goal: Solve 2-digit problems with regrouping.

Practice Ideas:

- Use vertical addition/subtraction practice
- Practice regrouping with base-ten blocks

Example Questions:

- What is 34 + 28?
- What is 65 – 47?

Round 5: Multiplication (3 seconds per question)

Goal: Rapid recall of multiplication facts.

Practice Ideas:

- Speed drills and timed games
- Use multiplication triangles or fact families

Example Questions:

- What is 7 × 2?
- What is 5 × 6?

Round 6: Division Facts (3 seconds per question)

Goal: Recall basic division facts.

Practice Ideas:

- Use fact families (e.g., 12 ÷ 3 = 4 because 3 × 4 = 12)
- Practice with flashcards and division charts

Example Questions:

- What is 18 ÷ 6?
- What is 24 ÷ 8?

Round 7: Two-Step Multiplication & Division (6 seconds per question)

Goal: Solve problems with two operations.

Practice Ideas:

- Use word problems and visual models
- Practice solving step-by-step

Example Questions:

- 3 × 4 ÷ 2 = ?
- 6 × 2 ÷ 3 = ?

Round 8: Balancing Equations (6 seconds per question)

Goal: Make both sides of an equation equal.

Practice Ideas:

- Use number balance visuals
- Practice solving for missing numbers

Example Questions:

- 4 + 5 = ___ + 6
- 3 × 2 = 6

Round 9: Three-Step All Operations (5 seconds per question)

Goal: Solve problems using addition, subtraction, multiplication, and division.

Practice Ideas:

- Use multi-step word problems
- Practice order of operations (without parentheses)

Example Questions:

- $2 + 3 \times 4 - 5 = ?$
- $6 \times 2 + 4 \div 2 = ?$

Round 10: Flash Round – Multiplication & Division (2 seconds per question)

Goal: Super-speed recall of facts.

Practice Ideas:

- Use rapid-fire flashcards
- Practice with a partner or in small groups

Example Questions:

- What is 8×3?
- What is $16 \div 4$?

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4th Grade Math Bee Study Guide

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Round 1: Addition (5 seconds per question)

Goal: Solve basic and multi-digit addition facts quickly.

Practice Ideas:

- Use flashcards and mental math strategies
- Practice regrouping with vertical addition

Example Questions:

- What is 9 + 8?
- What is 45 + 36?

Round 2: Subtraction (5 seconds per question)

Goal: Solve basic and multi-digit subtraction facts quickly.

Practice Ideas:

- Use number lines and subtraction strategies
- Practice regrouping with vertical subtraction

Example Questions:

- What is 14 – 6?
- What is 72 – 38?

Round 3: Multiplication Facts (5 seconds per question)

Goal: Recall multiplication facts up to 12 × 12.

Practice Ideas:

- Use multiplication charts and skip counting
- Practice with flashcards and games

Example Questions:

- What is 7 × 6?
- What is 9 × 4?

Round 4: 2-Digit Addition & Subtraction (7 seconds per question)

Goal: Solve problems with regrouping and borrowing.

Practice Ideas:

- Use base-ten blocks or place value charts
- Practice solving vertically

Example Questions:

- What is 56 + 47?
- What is 93 – 58?

Round 5: Multiplication (3 seconds per question)

Goal: Rapid recall of multiplication facts.

Practice Ideas:

- Speed drills and timed flashcards
- Use multiplication songs or apps

Example Questions:

- What is 6 × 3?
- What is 8 × 5?

Round 6: Division Facts (3 seconds per question)

Goal: Recall basic division facts.

Practice Ideas:

- Use fact families and inverse operations
- Practice with flashcards and division charts

Example Questions:

- What is 24 ÷ 6?
- What is 36 ÷ 9?

Round 7: Two-Step Multiplication & Division (6 seconds per question)

Goal: Solve problems with two operations.

Practice Ideas:

- Use word problems and visual models
- Practice solving step-by-step

Example Questions:

- 3 × 4 ÷ 2 = ?
- 8 × 2 ÷ 4 = ?

Round 8: Balancing Equations (6 seconds per question)

Goal: Make both sides of an equation equal.

Practice Ideas:

- Use number balance visuals
- Practice solving for missing numbers

Example Questions:

- 5 + 3 = ___ + 4
- 6 × 2 = 12

Round 9: Three-Step All Operations (5 seconds per question)

Goal: Solve problems using addition, subtraction, multiplication, and division.

Practice Ideas:

- Use multi-step word problems
- Practice order of operations (without parentheses)

Example Questions:

- $2 + 3 \times 4 - 5 = ?$
- $6 \times 2 + 4 \div 2 = ?$

Round 10: Flash Round – Adding Fractions (2 seconds per question)

Goal: Add fractions with like denominators quickly.

Practice Ideas:

- Use fraction strips or visuals
- Practice with fraction flashcards

Example Questions:

- What is 1/4 + 2/4?
- What is 3/8 + 4/8?

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5th Grade Math Bee Study Guide

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Round 1: Addition (5 seconds per question)

Goal: Solve basic and multi-digit addition problems quickly.

Practice Ideas:

- Use mental math strategies and regrouping
- Practice with vertical addition and word problems

Example Questions:

- What is 67 + 45?
- What is 123 + 89?

Round 2: Subtraction (5 seconds per question)

Goal: Solve basic and multi-digit subtraction problems quickly.

Practice Ideas:

- Practice borrowing and place value strategies
- Use number lines and subtraction flashcards

Example Questions:

- What is 94 – 38?
- What is 150 – 76?

Round 3: Multiplication Facts (7 seconds per question)

Goal: Recall multiplication facts up to 12 × 12.

Practice Ideas:

- Use multiplication charts and skip counting
- Practice with flashcards and games

Example Questions:

- What is 8 × 7?
- What is 6 × 9?

Round 4: 2-Digit Addition & Subtraction (7 seconds per question)

Goal: Solve problems with regrouping and borrowing.

Practice Ideas:

- Use base-ten blocks or place value charts
- Practice solving vertically and with word problems

Example Questions:

- What is 56 + 47?
- What is 93 – 58?

Round 5: Multiplication (3 seconds per question)

Goal: Rapid recall of multiplication facts.

Practice Ideas:

- Speed drills and timed flashcards
- Use multiplication songs or apps

Example Questions:

- What is 6 × 3?
- What is 8 × 5?

Round 6: Division Facts (3 seconds per question)

Goal: Recall basic division facts.

Practice Ideas:

- Use fact families and inverse operations
- Practice with flashcards and division charts

Example Questions:

- What is 24 ÷ 6?
- What is 36 ÷ 9?

Round 7: Two-Step Multiplication & Division (6 seconds per question)

Goal: Solve problems with two operations.

Practice Ideas:

- Use word problems and visual models
- Practice solving step-by-step

Example Questions:

- 3 × 4 ÷ 2 = ?
- 8 × 2 ÷ 4 = ?

Round 8: Balancing Equations (6 seconds per question)

Goal: Make both sides of an equation equal.

Practice Ideas:

- Use number balance visuals
- Practice solving for missing numbers

Example Questions:

- 5 + 3 = ___ + 4
- 6 × 2 = 12

Round 9: Three-Step All Operations (5 seconds per question)

Goal: Solve problems using addition, subtraction, multiplication, and division.

Practice Ideas:

- Use multi-step word problems
- Practice order of operations (PEMDAS without parentheses)

Example Questions:

- 2 + 3 × 4 – 5 = ?

- $6 \times 2 + 4 \div 2 = ?$

Round 10: Flash Round – Rounding Decimals (5 seconds per question)

Goal: Round decimals to the nearest whole number or place value.

Practice Ideas:

- Use place value charts
- Practice rounding with number lines and visuals

Example Questions:

- Round 4.7 to the nearest whole number
- Round 3.26 to the nearest tenth