



# First Grade Mathematics

Here is a list of all of the Mathematics Skills students learn in First Grade.

## A. Counting and number patterns

1. Counting review - up to 10
2. Count to fill a ten frame
3. Counting review - up to 20
4. Counting tens and ones - up to 20
5. Count on ten frames - up to 40
6. Skip-counting by twos
7. Skip-counting by fives
8. Skip-counting by tens
9. Skip-counting by twos, fives, and tens
10. Counting - up to 100
11. Counting tens and ones - up to 99
12. Counting by twos, fives, and tens
13. Counting forward - up to 100
14. Counting backward - up to 100
15. Counting forward - up to 120

16. Number lines
17. Counting on the hundred chart
18. Hundred chart
19. Even or odd
20. Identify numbers as even or odd
21. Even or odd numbers on number lines
22. Which even or odd number comes before or after?
23. Skip-counting patterns - with tables
24. Sequences - count up and down by 1, 2, 5, and 10
25. Ordinal numbers
26. Writing numbers in words - convert words to digits
27. Writing numbers in words - convert digits to words
28. Roman numerals I, V, X

## **B. Understand addition**

1. Add with cubes - sums up to 10
2. Add with pictures - sums up to 10
3. Addition sentences up to 10: which model matches?
4. Addition sentences up to 10: what does the model show?
5. Addition sentences using number lines - sums up to 10
6. Turn words into an addition sentence - sums up to 10
7. Adding zero

## C. Addition skill builders

1. Adding 1
2. Adding 2
3. Adding 3
4. Adding 4
5. Adding 5
6. Adding 6
7. Adding 7
8. Adding 8
9. Adding 9
10. Adding 0

## D. Addition

1. Addition facts - sums up to 10
2. Make a number using addition - sums up to 10
3. Complete the addition sentence - sums up to 10
4. Ways to make a number - addition sentences up to 10
5. Addition word problems with pictures - sums up to 10
6. Addition word problems - sums up to 10
7. Addition sentences for word problems - sums up to 10
8. Addition sentences using number lines - sums up to 20
9. Addition facts - sums up to 20
10. Make a number using addition - sums up to 20

11. Complete the addition sentence - sums up to 20
12. Addition word problems - sums up to 20
13. Addition sentences for word problems - sums up to 20
14. Related addition facts
15. Addition sentences: true or false?
16. Addition sentences: which is true?
17. Add a one-digit number to a two-digit number - without regrouping
18. Regroup tens and ones - ways to make a number
19. Regroup tens and ones
20. Add a one-digit number to a two-digit number - with regrouping
21. Addition word problems - one-digit plus two-digit numbers
22. Addition sentences for word problems - one-digit plus two-digit numbers

## **E. Addition strategies**

1. Add doubles - with models
2. Add doubles
3. Add doubles - complete the sentence
4. Add using doubles plus one
5. Add using doubles minus one
6. Add three numbers - use doubles
7. Complete the addition sentence - make ten
8. Add three numbers - make ten
9. Add two multiples of ten
10. Add a multiple of ten
11. Add three numbers
12. Add three numbers - word problems

## **F. Understand subtraction**

1. Subtract with cubes - up to 10
2. Subtract with pictures - up to 10
3. Subtraction sentences up to 10: which model matches?
4. Subtraction sentences up to 10: what does the model show?
5. Subtraction sentences using number lines - up to 10
6. Turn words into a subtraction sentence - up to 10
7. Subtract zero and all

## **G. Subtraction skill builders**

1. Subtracting 1
2. Subtracting 2
3. Subtracting 3
4. Subtracting 4
5. Subtracting 5
6. Subtracting 6
7. Subtracting 7
8. Subtracting 8
9. Subtracting 9
10. Subtracting 0

## H. Subtraction

1. Subtraction facts - up to 10
2. Make a number using subtraction - up to 10
3. Ways to make a number - subtraction sentences up to 10
4. Ways to subtract from a number - subtraction sentences up to 10
5. Complete the subtraction sentence - up to 10
6. Subtraction word problems with pictures - up to 10
7. Subtraction word problems - up to 10
8. Subtraction sentences for word problems - up to 10
9. Subtraction sentences using number lines - up to 20
10. Subtraction facts - up to 20
11. Make a number using subtraction - up to 20
12. Complete the subtraction sentence - up to 20
13. Subtraction word problems - up to 20
14. Subtraction sentences for word problems - up to 20
15. Related subtraction facts
16. Subtraction sentences: true or false?
17. Subtraction sentences: which is true?
18. Subtract one-digit numbers from two-digit numbers

## I. Subtraction strategies

1. Relate addition and subtraction sentences
2. Subtract doubles
3. Subtract multiples of 10
4. Subtract a multiple of 10

## **J. Mixed operations**

1. Addition and subtraction - ways to make a number
2. Which sign makes the number sentence true?
3. Fact families
4. Addition and subtraction facts - up to 10
5. Addition and subtraction facts - up to 20
6. Addition and subtraction word problems
7. Addition and subtraction sentences: which is true?
8. Ten more or less
9. Add and subtract tens
10. Addition and subtraction terms

## **K. Comparing**

1. Comparing - review
2. Compare numbers up to 10 using words
3. Compare numbers up to 10 using symbols
4. Compare numbers up to 100 using words
5. Compare numbers up to 100 using symbols
6. Comparison word problems

## **L. Estimation**

1. Estimate to the nearest ten

## **M. Place values**

1. Place value models up to 20
2. Write numbers as tens and ones up to 20
3. Place value models up to 100
4. Convert between tens and ones - multiples of 10
5. Write numbers as tens and ones

## **N. Spatial sense**

1. Left, middle, and right
2. Top, middle, and bottom
3. Location in a grid
4. Above and below
5. Beside and next to

## **O. Data and graphs**

1. Which picture graph is correct?
2. Interpret picture graphs
3. Which tally chart is correct?
4. Interpret tally charts
5. Which table is correct?
6. Interpret data in tables
7. Interpret bar graphs I
8. Interpret bar graphs II
9. Which bar graph is correct?



## **P.Measurement**

1. Read a thermometer
2. Compare objects: length and height
3. Wide and narrow
4. Light and heavy
5. Holds more or less
6. Compare size, weight, and capacity
7. Measure length with objects
8. Measure length with cubes
9. Measure height with cubes
10. Measure using an inch ruler
11. Which customary unit of length is appropriate?
12. Customary units of length: word problems
13. Which customary unit of weight is appropriate?
14. Measure using a centimeter ruler
15. Which metric unit of length is appropriate?
16. Metric units of length: word problems
17. Which metric unit of weight is appropriate?

## **Q. Money**

1. Names and values of common coins
2. Names and values of all coins
3. Count pennies, nickels, and dimes
4. Count pennies, nickels, dimes, and quarters
5. Equivalent groups of coins
6. Exchanging coins - with pictures
7. Exchanging coins
8. Money - word problems
9. Purchases: do you have enough money?
10. Compare money amounts
11. Least number of coins

## **R. Patterns**

1. Introduction to patterns
2. Find the next shape in a pattern
3. Complete a pattern
4. Make a pattern
5. Growing patterns
6. Find the next shape in a growing pattern
7. Find the next row in a growing pattern

## **S. Probability**

1. More, less, and equally likely
2. Certain, probable, unlikely, and impossible

## **T. Sorting, ordering, and classifying**

1. Count shapes in a Venn diagram
2. Sort shapes into a Venn diagram
3. Put numbers in order

## **U. Time**

1. Match digital clocks and times
2. Match analog clocks and times
3. Match analog and digital clocks
4. Read clocks and write times
5. A.M. or P.M.
6. Times of everyday events
7. Compare clocks
8. Time and clocks: word problems
9. Days of the week
10. Seasons of the year
11. Months of the year
12. Read a calendar I
13. Read a calendar II

## **V. Two-dimensional shapes**

1. Name the two-dimensional shape
2. Select two-dimensional shapes
3. Rhombuses
4. Count sides and corners
5. Compare sides and corners
6. Square corners
7. Equal sides
8. Open and closed shapes
9. Flip, turn, and slide
10. Symmetry

## **W. Three-dimensional shapes**

1. Two-dimensional and three-dimensional shapes
2. Name the three-dimensional shape
3. Cubes and rectangular prisms
4. Select three-dimensional shapes
5. Count vertices, edges, and faces
6. Compare vertices, edges, and faces
7. Identify shapes traced from solids
8. Identify faces of three-dimensional shapes
9. Shapes of everyday objects I
10. Shapes of everyday objects II

## X. Fractions

1. Equal parts - halves and fourths
2. Equal parts - halves, thirds, and fourths
3. Halves
4. Thirds
5. Fourths
6. Halves and fourths
7. Halves, thirds, and fourths
8. Simple fractions: what fraction does the shape show?
9. Simple fractions: which shape matches the fraction?
10. Simple fractions: parts of a group
11. Fractions - word problems
12. Compare fractions
13. Fraction models equivalent to whole numbers
14. Fractions equivalent to whole numbers