Second Grade
Second Nine-Week
Math Study Guide 2015

This study guide will help you review all of the math standards that will be tested on the nine-week math test. Use this guide as a review to help your child review the second grade math concepts. Vocabulary and sample problems are given in this study guide.

KEY VOCABULARY

a.m. before noon; the time between 12 midnight and 12 noon	digital clock a clock that shows time in numbers	hour a unit of time equal to 60 minutes	value The amount or value of a number 378- The value of the 3 is 300, 7 is 70 and the value of the 8 is 8 ones	p.m. afternoon; the time between 12 noon and 12 midnight
analog clock a clock with a minute hand and an hour hand	word form of a number Writing a number in word form (ex: sixty)	expanded Form Writing a number using the value of each digit. 245 = 200 + 40 +5	minute A unit of time equal to 60 seconds	greater than > a symbol that shows a relationship between numbers; more than
equation A number sentence that uses the equal sign to show that two amounts are equal	digit The symbols 0,1,2,3,4,5,6,7,8,9, used to write numbers	compare To determine how numbers, objects, or shapes are alike or different	hundreds A group or bundle of ten tens; in place value, the place to the left of the tens place	expanded form a way to write numbers that shows the value of each digit
inverse (opposite) The inverse of addition is subtraction. The inverse of multiplication is division.	decompose Breaking numbers into tens and ones; breaking wholes into parts	compose joining parts to make a whole; joining numbers to create tens	equal (s) = Being exactly the same in amount or value	less than < A symbol that shows the relationship between numbers, not as many
tens A group or bundle of ten ones; in place value, the place to the left of the ones place	ones The number of single objects less than ten; in place value, the units place	Sum The name of the answer in an addition equation	Difference The name of the answer in a subtraction equation	Fact family A collection of related addition and subtraction facts

(2.OA.1) Use addition and subtraction to solve one and two-step word problem: Result Unknown (add to/take from) Students will have to show their work, write and equation and solve the problem.
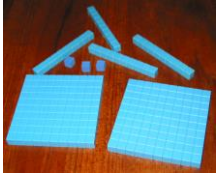
1. Hal has seventy-five crayons.
   He used thirty-six crayons.
   How many crayons did he not use?

2. There are 73 green crayons in the box.
   There are 68 blue crayons in the box.
   How many crayons are there altogether?

3. There are 67 marbles in a bag.
   42 of the marbles are green.
   The rest of the marbles are orange
   How many orange marbles are in the bag?

4. Wendy had 19 pencils. If she used thirteen of them,
   How many would she have left?
   Write an equation and solve : _____
   Answer:_____
   Show your work:

5. Eighty three crayons in the box. Sixty seven of the crayons are black. The rest of the crayons are brown.
   How many crayons are brown? Which equation can you use to solve the problem?

A. 83 + 67 = _____   B. 83 + _____ = 67   C. 67 + _____ = 83   D. _____ + 83 = 67

6. What is the place of the underlined digit?   16<u>4</u>

    A. thousands   B. hundreds   B. tens   D. ones

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7. Look at the number of cubes.

What number is represented in the drawing?
     A. 1, 243   B. 240   C. 323   D. 243

8.   How is the number 473 written in words?
     A. forty seven three   C. four hundred seventy-three
     B. four hundred thirty-seven   D. forty seven and three
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9. What is 450 written in expanded form?
     A. 4,000 + 500   B. 400 + 500   C. 400 + 50   D. 40 + 50

10.   Which statement is true?
     A. 150 is greater than 165   C. 165 is less than 150
     B. 150 is equal to 165   D. 150 is less than 165

Compare using , < , >, =

11.   249 ◯   two hundred nine

12.   2 + 60 + 800   ◯   682

13.   348 ◯   three hundred forty- eight
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14.   Order the following numbers from **greatest to least: (Questions may ask to order from least to greatest)**
          147, 129, 189   _____, _____, _____

15.   Add to find the sum   36 + 24 + 28 + 12 = _____

Show your work

          A. 200   B. 100   C. 122   D. 82

16. Mary has the following number of butterflies in her collection.

Butterflies	Number of Each Butterfly Seen
Blue Butterflies	45
Red Butterflies	16
Green Butterflies	29
Yellow Butterflies	28

How many butterflies does Mary have in her collection?

A. 117   B. 118   C. 151   D. 120

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17. There are 24 red crayons, 52 blue crayons, 12 orange crayons and 29 black crayons in a bag.
How many crayons are in the bag?

Show your work

A. 117   B.107   C. 127   D. 240

(2.NBT.7) Add or subtract within 1,000 using different methods: properties of operations, place value relationships between addition and subtraction. Know how to compose (regroup) and decompose (borrow) numbers to add and subtract.

18. 6 2
    - 3 8

19.   7 6
    + 2 8

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20. Write the number that comes before and after each number in bold print.

_____   **299** _____
number before   number after

(2.NBT.8) Mentally add 10 or 100 to a given number

21. What number is ten **more** than 112? _____

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22. What is 10 **less** than 198? _____

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23. What is one hundred more than 538?

A. 638   B. 438   C. 548   D. 528

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24. What is **three** hundred more than 420?

A. 120   B. 450   C. 720   D. 400

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25. What is the last number in this pattern?   834, 824, 814, _____

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26. Count by 10, what numbers go in the blanks?
320, _____, 340, _____, 360

A. 330 and 370   B. 330 and 350   C. 325 and 345   D. 303 and 305

27. Sam had 625 apples. Marc has ten less apples. How many apples does Marc have?
    A. He has 725 apples.   C. He has 525 apples.
    B. He has 615 apples.   D. He has 635 apples.

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28. Fran has forty more cookies than Sue. Sue has 387 cookies. How many cookies does Fran have?
    A. 347   B. 427   C. 487   D. 287

(2.NBT.9) Use place value and properties of addition and subtraction to explain why addition and subtraction strategies work.

29. Look at the number sentence:
    231 + 324 = 555

Which equation is a fact in this number family?
    A. 324- 231 = 555   B. 231 + 555 = 324   C. 555 + 324 = 231   D. 555- 231 = 324

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30. What subtraction problem can help you solve this problem?
    27 + _____ = 41

  A. 41 + 27 = _____   C. 27 – 41 = _____

  B. 41 – 27 = _____   D. 43 + 43 = _____

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31. Fill in the missing number: 310 + _____ = 215 + 310

    A. 515   B. 215   C. 835   D. 45

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32. Using the numbers: 25 , 32, 57
    Write the fact family.
    _____ + _____ = _____
    _____ + _____ = _____
    _____ - _____ = _____
    _____ - _____ = _____

(2.MD.7) Telling time with an analog or digital clock to the nearest five minutes.

33. What time is shown on the clock below?

    _____: _____

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34. John is eating dinner. What time would it most likely be?

  A. 2:00 am   B. 6:00 am   C. 6:00 pm   D. 8:00 am

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35. What time is shown on the clock?

  A. 9:40   B. 8:40   C. 9:08   D. 8:90

36. Look at the clock.

What is another way to write the time?
   A. Three forty   B. eight twenty   C. half past eight   D. a quarter after eight

37. Which analog clock has the same time as the digital clock?

| 2 :45 |

    A   B   C   D

38. What is another way to read the time on the clock?

| 8:30 |

A. half past 8   B. a quarter till 8   C. a quarter after 8   D.   eight o'clock

Answers

1. 39 crayons	2. 141 crayons	3. 25 marbles	4. 19 -13= 6 Answer: 6 **Work may vary**	5. C
6. D	7. D	8. C	9. C	10. D
11. >	12. >	13. =	14. 189, 147, 129	15. B
16. B	17. A	18. 24	19. 104	20. 298; 300
21. 122	22. 188	23. A	24. C	25. 804
26. B	27. B	28. B	29. D	30. B

31. B	32. 25 + 32 = 57
	     32 + 25 = 57
	     57- 25= 32
	     57- 32= 25
		33. 4:30	34. C	35. B

36. D	37. A	38. A		