

# Summer Math Packet Grade 5 into 6

Dear Parents/Guardians of in-coming 6th graders:

This year will be an exciting year. Your child will be entering Lazar Middle School. As a way to assist your child in transitioning to the middle school, the Montville Math Department in collaboration with their elementary school colleagues, have created a **Grade 5-6 Summer Math Packet**. The purpose of the packet is threefold, to:

- Reinforce skills that should be mastered by all exiting fifth graders
- Identify areas of weakness for review that can be revisited *independently*
- Reduce the need for extensive review at the beginning of the school year

This math packet is optional. An answer key is included at the end of document. This packet will not be graded or collected by the 6<sup>th</sup> grade teachers. All concepts and skills reflected in this Math Packet have been previously taught in 5<sup>th</sup> grade.

Although this packet is not a requirement we feel it can help ease the transition to middle school and help students reinforce their skills prior to the start of 6th grade. If you find that your child could use some additional practice and reinforcement, there are a number of websites available that your child may find helpful. These websites are interactive in nature.

- <http://www.shodor.org/interactivate/activities/>
- [http://nlvm.usu.edu/en/nav/grade\\_g\\_3.html](http://nlvm.usu.edu/en/nav/grade_g_3.html)
- [www.coolmath-games.com](http://www.coolmath-games.com)
- [www.aaamath.com](http://www.aaamath.com)

If you have any questions or concerns or would like to speak directly to the Supervisor of Math, Science, and Business, please contact me using the information provided below.

Sincerely,

*Sandra Schwartz*

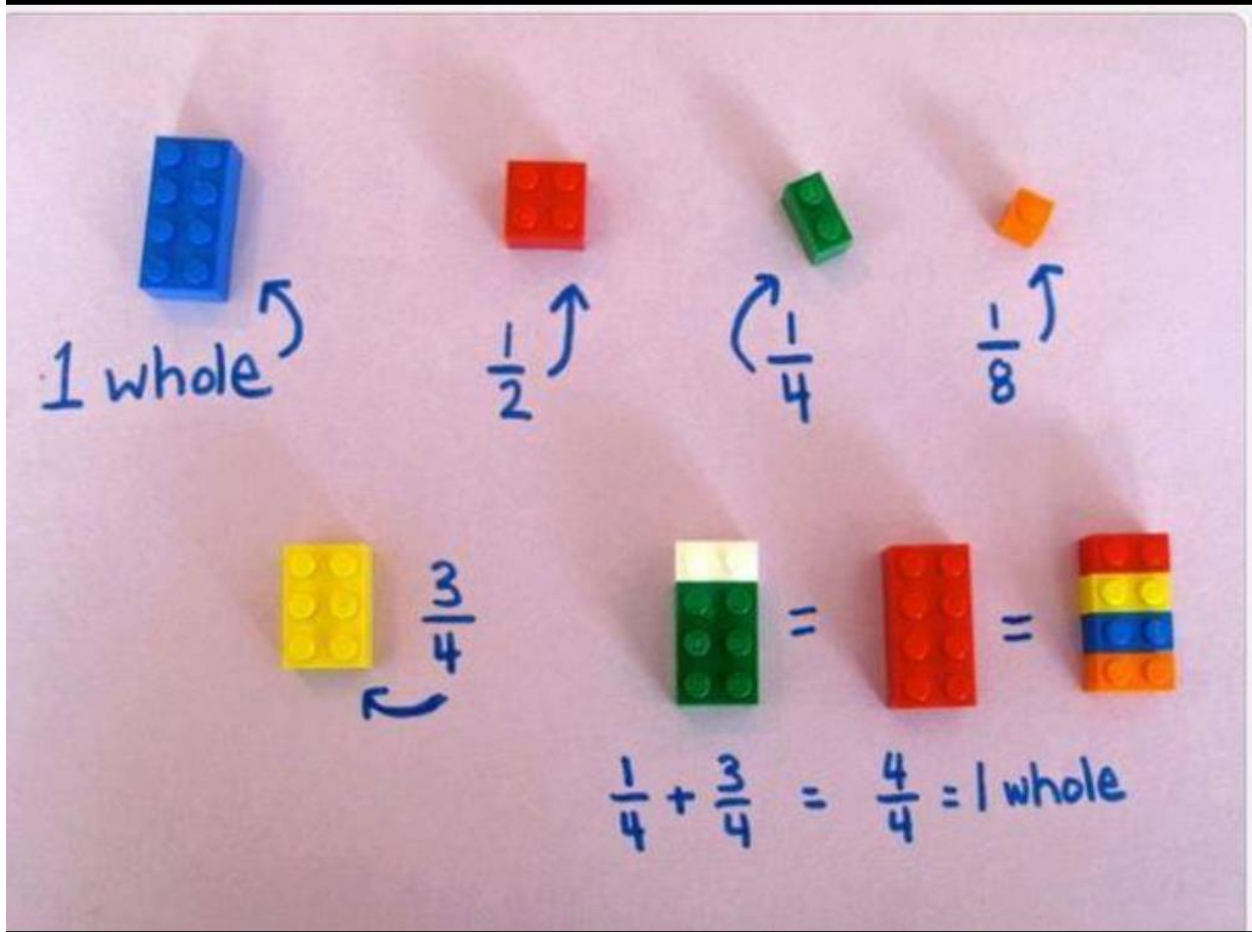
Sandra Schwartz, Ed. D.

Supervisor of Math, Science, and Business

[sandra.schwartz@montville.net](mailto:sandra.schwartz@montville.net)

(973) 331-7100, ext. 2638

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# Welcome to 6<sup>th</sup> Grade Math!



## Extra Practice Summer Assignment

The 6th Grade Math Department has put together a list of fun summer math games for you to use during the summer so you don't forget all of the math facts that you have learned in 5th grade. Please visit some of these sites throughout the summer and have fun. **At the end of this list are some practice problems.** Test yourself and see how much you know! The answers are on the last page.

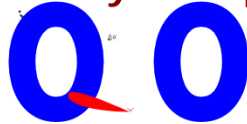
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## Websites

Use the following websites to assist in your review. The websites present the materials in a game format.

### Decimals

Where's your point!



- Ordering decimals [http://www.softschools.com/math/ordering\\_numbers/ordering\\_decimals/](http://www.softschools.com/math/ordering_numbers/ordering_decimals/)
- Ordering decimals <http://www.kidsmathgamesonline.com/numbers/decimals.html>
- Decimal number line (5 questions per round)  
[http://www.softschools.com/math/decimals/decimal\\_number\\_line/](http://www.softschools.com/math/decimals/decimal_number_line/)
- Inequalities with decimals  
[http://www.softschools.com/math/decimals/inequalities\\_with\\_decimals/](http://www.softschools.com/math/decimals/inequalities_with_decimals/)
- Decimals Matching (decimal & picture)  
[http://www.softschools.com/math/decimals/matching\\_decimals\\_game/](http://www.softschools.com/math/decimals/matching_decimals_game/)
- Decimals (multiple activities) <http://gamequarium.com/decimals.html>

### Order of Operations



- Order of Operations [http://www.softschools.com/math/order\\_of\\_operations/games/](http://www.softschools.com/math/order_of_operations/games/)

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- Order of Operations [http://www.mathplayground.com/order\\_of\\_operations.html](http://www.mathplayground.com/order_of_operations.html)

## **Multiplication/Division**



- Multiplication and Division Operations (Level 1) [http://www.softschools.com/math/arithmetic\\_operations/multiplication\\_division/1/](http://www.softschools.com/math/arithmetic_operations/multiplication_division/1/)
- Multiplication and Division Operations (Level 2) [http://www.softschools.com/math/arithmetic\\_operations/multiplication\\_division/2/](http://www.softschools.com/math/arithmetic_operations/multiplication_division/2/)
- Math Man Multiplication [http://www.softschools.com/math/games/fun/math\\_man/multiplication/](http://www.softschools.com/math/games/fun/math_man/multiplication/)
- Math Man Division [http://www.softschools.com/math/games/fun/math\\_man/division/](http://www.softschools.com/math/games/fun/math_man/division/)
- Multiplication (many activities) <http://www.multiplication.com/games/all-games>
- Speed Grid Multiplication <http://www.oswego.org/ocsd-web/games/SpeedGrid/Multiplication/urikamultires.html>

## **Addition/Subtraction/Multiplication/Division**

- Arithmetic Game (need to get to 0 by using add/sub/multi/div) [http://www.softschools.com/math/arithmetic\\_operations/arithmetic\\_operations\\_game/](http://www.softschools.com/math/arithmetic_operations/arithmetic_operations_game/)

## **Addition/Subtraction**

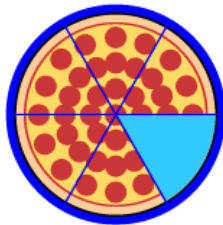


- Addition and Subtraction Operations (Basic) [http://www.softschools.com/math/arithmetic\\_operations/addition\\_subtraction/basic/](http://www.softschools.com/math/arithmetic_operations/addition_subtraction/basic/)
- Addition and Subtraction Operations (Level 1) [http://www.softschools.com/math/arithmetic\\_operations/addition\\_subtraction/1/](http://www.softschools.com/math/arithmetic_operations/addition_subtraction/1/)
- Addition and Subtraction Operations (Level 2) [http://www.softschools.com/math/arithmetic\\_operations/addition\\_subtraction/2/](http://www.softschools.com/math/arithmetic_operations/addition_subtraction/2/)

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- Math Man Addition [http://www.softschools.com/math/games/fun/math\\_man/addition/](http://www.softschools.com/math/games/fun/math_man/addition/)
- Speed Grid Addition (Level 1) <http://www.oswego.org/ocsd-web/games/SpeedGrid/Addition/urikares.html>
- Speed Grid Addition (Level 2) <http://www.oswego.org/ocsd-web/games/SpeedGrid/Addition/urikaadd2res.html>
- Speed Grid Addition (Level 3) <http://www.oswego.org/ocsd-web/games/SpeedGrid/Addition/urikaadd3res.html>
- Math Man Subtraction [http://www.softschools.com/math/games/fun/math\\_man/subtraction/](http://www.softschools.com/math/games/fun/math_man/subtraction/)
- Speed Grid Subtraction (Level 1) <http://www.oswego.org/ocsd-web/games/SpeedGrid/Subtraction/urikasub1res.html>
- Speed Grid Subtraction (Level 2) <http://www.oswego.org/ocsd-web/games/SpeedGrid/Subtraction/urikasub2res.html>
- Speed Grid Subtraction (Level 3) <http://www.oswego.org/ocsd-web/games/SpeedGrid/Subtraction/urikasub3res.html>

## **Fractions**



- Pizza fractions (2 levels) <http://www.softschools.com/math/fractions/games/>
- Ordering fractions (least to greatest, greatest to least) [http://www.softschools.com/math/fractions/games/ordering\\_fractions/](http://www.softschools.com/math/fractions/games/ordering_fractions/)
- Fractions Addition [http://www.softschools.com/math/games/fractions\\_practice.jsp](http://www.softschools.com/math/games/fractions_practice.jsp)
- Fractions Subtraction [http://www.softschools.com/math/games/fractions\\_subtraction.jsp](http://www.softschools.com/math/games/fractions_subtraction.jsp)
- Fractions Matching [http://www.softschools.com/math/fractions/games/matching\\_fractions\\_game/](http://www.softschools.com/math/fractions/games/matching_fractions_game/)
- Fraction Game <http://illuminations.nctm.org/Activity.aspx?id=4148>

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## Test Yourself!

Write these numbers in expanded form. If you don't remember how to do it, please visit these websites:

- <http://www.studyzone.org/testprep/math4/d/expandedform41.cfm>
- [http://www.aaamath.com/g4\\_31dpx.htm](http://www.aaamath.com/g4_31dpx.htm)
- <https://learnzillion.com/lessons/13-write-numbers-in-expanded-form>

1. 74,673 \_\_\_\_\_

2. 6,016,061 \_\_\_\_\_

3. 9997 \_\_\_\_\_

4. 2193 \_\_\_\_\_

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Round the number to the place value of the underlined digit. If you don't remember how to do it, please visit these websites:

- <http://www.enchantedlearning.com/math/rounding/>
- <http://www.aaamath.com/est-dec-round.htm>
- <https://www.khanacademy.org/math/cc-fifth-grade-math/cc-5th-place-value-decimals-top/cc-5th-rounding-decimals/v/rounding-decimals>

5. 38,593

\_\_\_\_\_

6. 29,999

\_\_\_\_\_

Round the decimal as specified.

7. 31.54 (nearest tenth)

\_\_\_\_\_

9. 46.373 (nearest hundredth)

\_\_\_\_\_

8. 92.76 (nearest tenth)

\_\_\_\_\_

10. 59.883 (nearest hundredth)

\_\_\_\_\_

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Test the number for divisibility by 2, 3, 5, 6, 9, and 10. If you don't remember how to do it, please visit these websites:

- <http://www.mathsisfun.com/divisibility-rules.html>
- [http://www.mathplayground.com/howto\\_divisibility.html](http://www.mathplayground.com/howto_divisibility.html)

Multiple choice.

11. 270

[A] 2, 5, 6, 10

[C] 3, 5, 9

[B] 2, 3, 5, 6, 9, 10

[D] Not divisible by factors listed.

12. 369

[A] 3, 9

[C] 3, 5, 9

[B] 2, 5, 6, 10

[D] Not divisible by factors listed.

Test the number for divisibility by 2, 3, 5, 6, 9, and 10.

13. 425 \_\_\_\_\_

14. 589 \_\_\_\_\_

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Write the mixed number as an improper fraction or the improper fraction as a mixed number. If you don't remember how to do it, please visit these websites:

- [http://www.khanacademy.org/math/arithmetic/fractions/mixed\\_numbers/v/mixed-numbers-and-improper-fractions](http://www.khanacademy.org/math/arithmetic/fractions/mixed_numbers/v/mixed-numbers-and-improper-fractions)
- <http://www.mathsisfun.com/improper-fractions.html>

15.  $\frac{33}{4}$

17.  $4\frac{2}{3}$

19.  $\frac{25}{7}$

16.  $\frac{47}{8}$

18.  $7\frac{1}{6}$

20.  $\frac{19}{5}$



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Find the sum, difference, product, or quotient. If you don't remember how to do it, please visit these websites:

- <http://www.youtube.com/watch?v=Hct1iFJV6GM>
- <http://www.virtualnerd.com/pre-algebra/rational-numbers/decimal-operations/decimal-examples>

21.  $443.41 - 16.8$

25.  $12.5 \times 8$

22.  $648.46 - 19.8$

26.  $10 \times 56.89$

23.  $46.954 + 6.69$

27.  $533.8 \div 34$

24.  $36.454 + 8.69$

28.  $19 \div 3.8$

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Find the sum, difference, or product. Simplify if possible. If you don't remember how to do it, please visit these websites:

- <http://www.watchknowlearn.org/Category.aspx?CategoryID=3206>
- <http://www.youtube.com/watch?v=-YMVu5nFvzc>
- <http://www.virtualnerd.com/pre-algebra/rational-numbers/fraction-addition-subtraction/add-fractions/>
- <http://www.virtualnerd.com/pre-algebra/rational-numbers/fraction-addition-subtraction/subtract-fractions/>
- <http://www.virtualnerd.com/pre-algebra/rational-numbers/fraction-division-multiplication/multiply-fractions/>

29.  $\frac{10}{13} - \frac{8}{13}$

33.  $7 + \frac{5}{9}$

30.  $\frac{2}{3} + \frac{1}{4}$

34.  $6 \times \frac{2}{3}$

31.  $4 - \frac{2}{5}$

35.  $\frac{2}{3} \times \frac{9}{10}$

32.  $9\frac{1}{2} + 1\frac{4}{7}$

36.  $\frac{5}{8} \times 2\frac{1}{3}$

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## Practice Word Problems

37. Camien wants to ride the Ferris wheel, the roller coaster, and the log ride. The Ferris wheel costs 5 tickets, the roller coaster costs 7 tickets and the log ride costs 1 ticket. Camien has 5 tickets. How many more tickets should Camien buy?

38. There are 13 seats in each section of a theater. If there are 30 sections in the theater, how many seats are in the theater?

39. Suppose your savings account has a balance of \$57.72. You deposit \$33.97 and withdraw \$32.90. What is the new balance?

40. If 6 buttons are used in each shirt, about how many shirts can be made using 363 buttons?

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Estimate the sum, difference, product or quotient. If you don't remember how to do it, please visit these websites:

- [http://www.youtube.com/watch?v=bZB\\_i2zs\\_K0](http://www.youtube.com/watch?v=bZB_i2zs_K0)
- <http://www.homeschoolmath.net/teaching/md/estimation.php>
- [http://www.sheppardsoftware.com/mathgames/round/mathman\\_round\\_multiplication.htm](http://www.sheppardsoftware.com/mathgames/round/mathman_round_multiplication.htm)

41.  $556 + 374 + 242$

44.  $463 \times 54$

42.  $7143 - 2784$

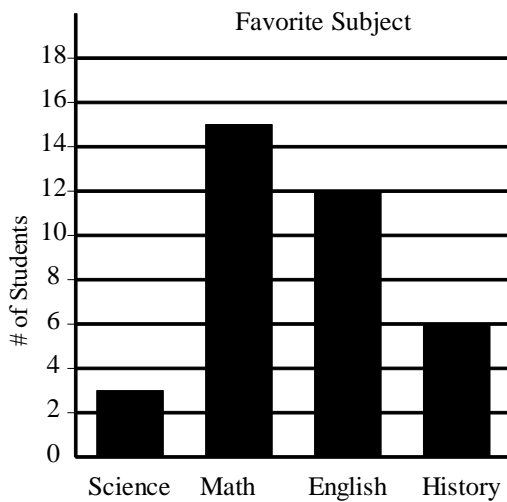
45.  $3489 \div 6$

43.  $2537 + 267$

46.  $767 \times 236$

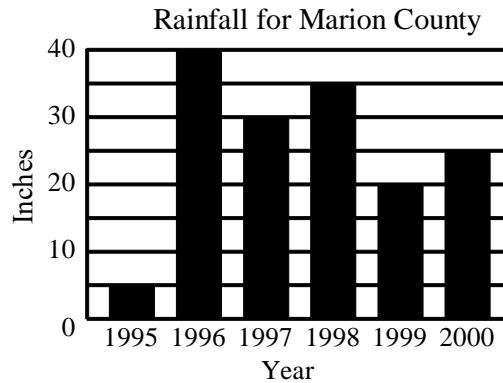
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47. Altogether, how many students said math or English was their favorite subject?

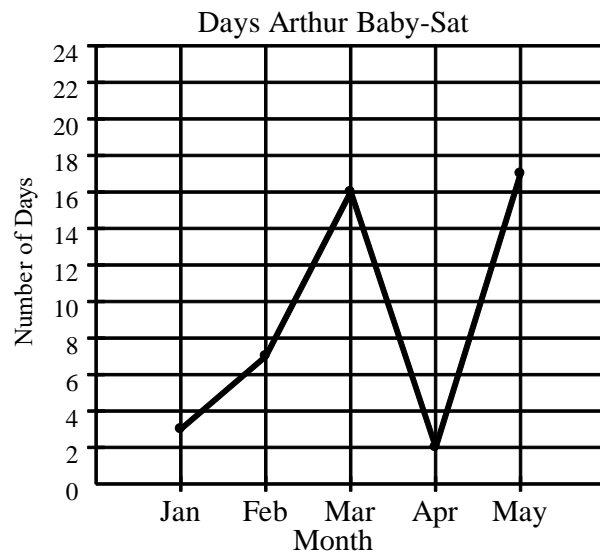


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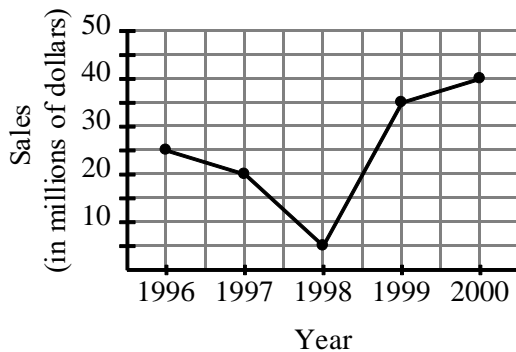
48. Find the difference in rainfall between 1995 and 2000.



49. How many days did Arthur baby-sit in March?



50. The graph below shows sales (in millions of dollars) for the XYZ Corporation. How much greater were sales in 1999 than in 1998?



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## Check Your Answers!!!

1)  $7 \times 10 + 4 \times 1 + 6 \times 0.1 + 7 \times 0.01 + 3 \times 0.001$

2)  $6 \times 1,000,000 + 1 \times 10,000 + 6 \times 1000 + 6 \times 10 + 1 \times 1$

3)  $9 \times 1000 + 9 \times 100 + 9 \times 10 + 7 \times 1$

4)  $2 \times 1000 + 1 \times 100 + 9 \times 10 + 3 \times 1$

5) 39,000

19)  $3 \frac{4}{7}$

6) 30,000

20)  $3 \frac{4}{5}$

7) 31.5

21) 426.61

8) 92.8

22) 628.66

9) 46.37

23) 53.644

10) 59.88

24) 45.144

11) B. 2, 3, 5, 6, 9, 10

25) 100

12) A. 3, 9

26) 568.9

13) 5

27) 15.7

14) Not divisible by factors listed

28) 5

15)  $8 \frac{1}{4}$

29)  $\frac{2}{13}$

16)  $5 \frac{7}{8}$

30)  $\frac{11}{12}$

17)  $\frac{14}{3}$

31)  $3 \frac{3}{5}$

18)  $\frac{43}{6}$

32)  $11 \frac{1}{14}$

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33)  $7\frac{5}{9}$

34) 4

35)  $\frac{3}{5}$

36)  $1\frac{11}{24}$

37) 8 tickets

38) 390 seats

39) \$58.79

40) 60 (not 60.5 or 61 because you cannot make  $\frac{1}{2}$  a shirt or a shirt with 3 buttons)

41) 1200

42) 4000

43) 2800

44) 20,000 – 30,000

45) 500 – 600

46) 140,000 – 160,000

47) 27 students

48) 20 inches

49) 16

50) 30,000,000