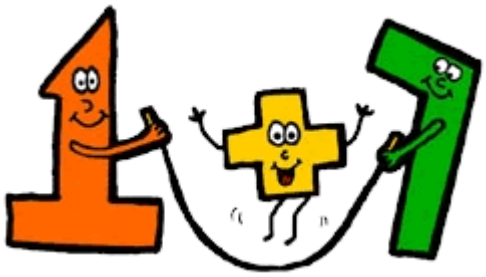
Welcome to 7th Grade Math!



Extra Practice Summer Assignment

The 7th 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 6th grade. Please visit some of these sites throughout the summer and have fun. At the end of this list is some practice problems. Test yourself and see how much you know! The answers are on the last page.

Websites

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

Decimals

- 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/
- 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/

- Decimals (multiple activities) http://gamequarium.com/decimals.html

Order of Operations

- Order of Operations http://www.softschools.com/math/order_of_operations/games/

- Order of Operations 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/

- Multiplication and Division Operations (Level 2) http://www.softschools.com/math/arithmetic_operations/multiplication_division/2/

- 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/

- 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

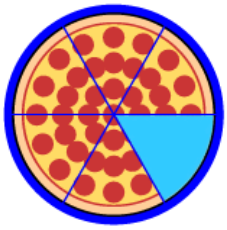
- Arithmetic Game (need to get to 0 by using add/sub/multi/div) http://www.softschools.com/math/arithmetic_operations/arithmetic_operations_game/

Addition/Subtraction

- Addition and Subtraction Operations (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/
- Addition and Subtraction Operations (Level 2) http://www.softschools.com/math/arithmetic_operations/addition_subtraction/2/
- 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/
- 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/
- Fractions Addition http://www.softschools.com/math/games/fractions_practice.jsp
- Fractions Subtraction http://www.softschools.com/math/games/fractions_subtraction.jsp
- Fractions Matching http://www.softschools.com/math/fractions/games/matching_fractions_game/
- Fraction Game http://illuminations.nctm.org/Activity.aspx?id=4148

This packet is a review of the basic skills needed to perform in 7th grade. It will be assumed that all students coming into 7th grade math **will be proficient in these skills**. The packet will not be collected but is a wonderful summer review of their skills.

A calculator should **not** be used to complete the summer assignment unless it is used to check your answers.

Also, please think about purchasing the TI34II, TI30XIIS or the Multiview calculator if you do not already have one. You will be using this calculator each year through High School. They can be found in Target, Drug Fair or Staples for about $20.

Have a nice summer. We are looking forward to seeing you all in September!

Your 7th Grade math Teachers

REMEMBER
NO CALCULATORS

Number Sense

If you need assistance in solving any problems in this section, please visit the following websites.

1. www.freemathhelp.com
2. www.aaamath.com/grade7
3. www.math.com
4. www.coolmath.com
5. www.math-play.com

1. What is 81,497 in words?

2. Write seven thousand, six hundred fifty-one in standard form.

Order the numbers from least to greatest.

3. 0.065, 0.033, 0.049, 0.031

Write the decimal in words.

4. 15.034

Order the set of numbers on a number line.

5. 0.3, 0.6, 1.5, 1.8, 1.02

Find the quotient.

6. $0.6 \div 0.3$

Find the product.

7. $0.4 \bullet 0.59$

8. $0.4(0.003)$

9. 7.28×2.6

10. $2\frac{2}{3} \cdot 1\frac{2}{3}$

Find the quotient.

11. $304 \div 20$

12. $45 \div \frac{5}{14}$

13. $\frac{5}{28} \div \frac{1}{7}$

14. $19\frac{1}{2} \div 2\frac{3}{5}$

Find the difference.

15. $\frac{3}{8} - \frac{1}{4}$

16. $7\frac{1}{2} - 6\frac{3}{10}$

17. $\frac{9}{14} - \frac{5}{14}$

18. $39 - 23\frac{3}{7}$

Find the product. Simplify.

19. $\frac{3}{14}$ of $\frac{10}{9}$

20. $\frac{1}{5} \times \frac{7}{9}$

Find the sum.

21. $\frac{1}{2} + \frac{3}{8}$

22. $\frac{9}{17} + \frac{15}{17}$

23. $6\frac{1}{4} + 7\frac{2}{3}$

24. Jared is scheduled to work for $\frac{4}{5}$ of an hour at the school fair. He has already worked $\frac{1}{6}$ of an hour. How much longer does he have to work?

25. Sal paints a wall in his art classroom. He uses $\frac{2}{3}$ gallon of blue paint and $\frac{1}{5}$ gallon of white paint. How much paint does he use?

26. Franklin bought 2 pencils for $0.79 each, 4 notebooks for $3.29 each, and a comic book for $1.29. How much change will he receive from $20?

27. Samuel earns $3.25 per hour for babysitting and $8 for each lawn he mows. Last month he babysat for 7 hours and mowed 2 lawns.

a. How much did he earn babysitting?

b. What were his total earnings?

Expressions and Equations

If you need assistance in solving any problems in this section, please visit the following websites.

1. www.aaamath.com
2. www.mathhelp.com
3. www.webmath.com
4. www.math-play.com

Find the value of the expression.

28. $4 \cdot 3 + 30 \div 5$

29. $77.31 + 51.9 - 77.31$

30. $4(2 + 3) + 6 \cdot 4 \div 2$

31. Use mental math to solve for the value of x:

$X + 24 = 129$

32. Use mental math to solve for the value of x:

$X - 72 = 200$

33. Use mental math to solve for the value of x:

$3x = 96$

Ratios and Proportional Relationships

If you need assistance in solving any problems in this section, please visit the following websites.

1. www.ixl.com
2. www.khanacademy.com
3. www.coolmath.com

Find the value that makes the ratios equal.

34. $\frac{18}{24} = \frac{6}{?}$

Write the decimal or fraction as a percent.

35. $\frac{2}{5}$

Find the sale price of the item.

36. 25% off a pair of shoes for $64

37. $\frac{x}{4} = \frac{15}{6}$

38. Of the 380 students at Central Middle School, 25% are on the honor roll. How many students are on the honor roll?

39. A car travels 136 miles using 7 gallons of gas. At that rate, how far can the car travel using 21 gallons of gas?

Geometry

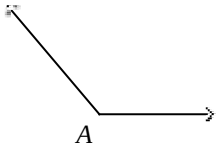
If you need assistance in solving any problems in this section, please visit the following websites.

1. www.khanacademy.com
2. www.ixl.com
3. www.coolmath.com
4. www.mathplayground.com
5. www.math-play.com

Classify the angle as *acute*, *right*, *obtuse*, or *straight*.

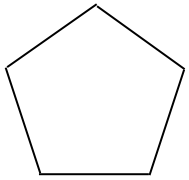
40. The measure of angle *A* is 74°.

41.



42. What is a four-sided polygon called?

43. Identify the polygon by the number of sides.



44. Identify the name of a triangle that has 2 equal sides

Statistics and Probability

If you need assistance in solving any problems in this section, please visit the following websites.

1. www.math-play.com
2. www.coolmath.com
3. www.jmathpage.com
4. www.mathworksheets4kids.com

45. You have a bag of marbles. There are 4 yellow, 5 blue, and 6 pink. If you pick a marble, what is the probability that you will get a blue marble?

46. Tom's last three test scores were 80%, 88%, and 92%. What was the mean of his scores?

47. Emily's bowling league scores were 85, 102, 84, 90, 102, 108, and 99. What is the mode of their scores?

Answer Sheet:

1. Eighty one thousand, four hundred ninety seven
2. 7,651
3. 0.031, 0.033, 0.049, 0.065
4. Fifteen and thirty four thousandths
5. 0.3, 0.6, 1.02, 1.5, 1.8
6. 2
7. 0.236
8. 0.0012
9. 18.928
10. 4 4/9
11. 15.2
12. 126
13. 1 ¼
14. 7 ½
15. 1/8
16. 1 1/5
17. 2/7
18. 15 4/7
19. 5/21
20. 7/45
21. 7/8
22. 1 7/17
23. 13 11/12
24. 19/30 hr.
25. 13/15 gal
26. $3.97
27. $22.75; $38.75
28. 18
29. 51.9
30. 32
31. 105
32. 272
33. 32

34. 8
35. 40%
36. $48
37. X=10
38. 95 students
39. 2856 mi
40. acute
41. obtuse
42. quadrilateral
43. pentagon
44. isosceles
45. 1/3
46. 87%
47. 102