

Summer Math

The Mathematics Summer Work packet(s) are designed to prepare students for the upcoming school year through the review of pre-requisite skills and concepts that students will need to remain fresh in order to be successful in the upcoming school year. It is designed to be a sufficient amount of practice that students can work on intermittently throughout the summer months.

Student Commitment over the Summer

Students should complete their summer work by dispersing it throughout the length of vacation. It is not recommended that summer work be completed all at once at the beginning of the summer or all at once at the end of the summer.

Seeking Extra Help on the Summer Work

Students looking for support and resources to guide them through summer work problem sets can visit the Khan Academy website or can sign up for summer math sessions with Mrs. Adcock for extra help. Summer math sessions will be for one hour at a cost of \$20 per student, due the day the student attends. If paying by check, please make check out to Tammy Adcock. No more than ten students will be in each session. Sessions will be held in the middle school math room at school.

Please sign up at <http://signup.com/go/UhsKUQs> each time you would like your child to attend a summer math session for extra help.

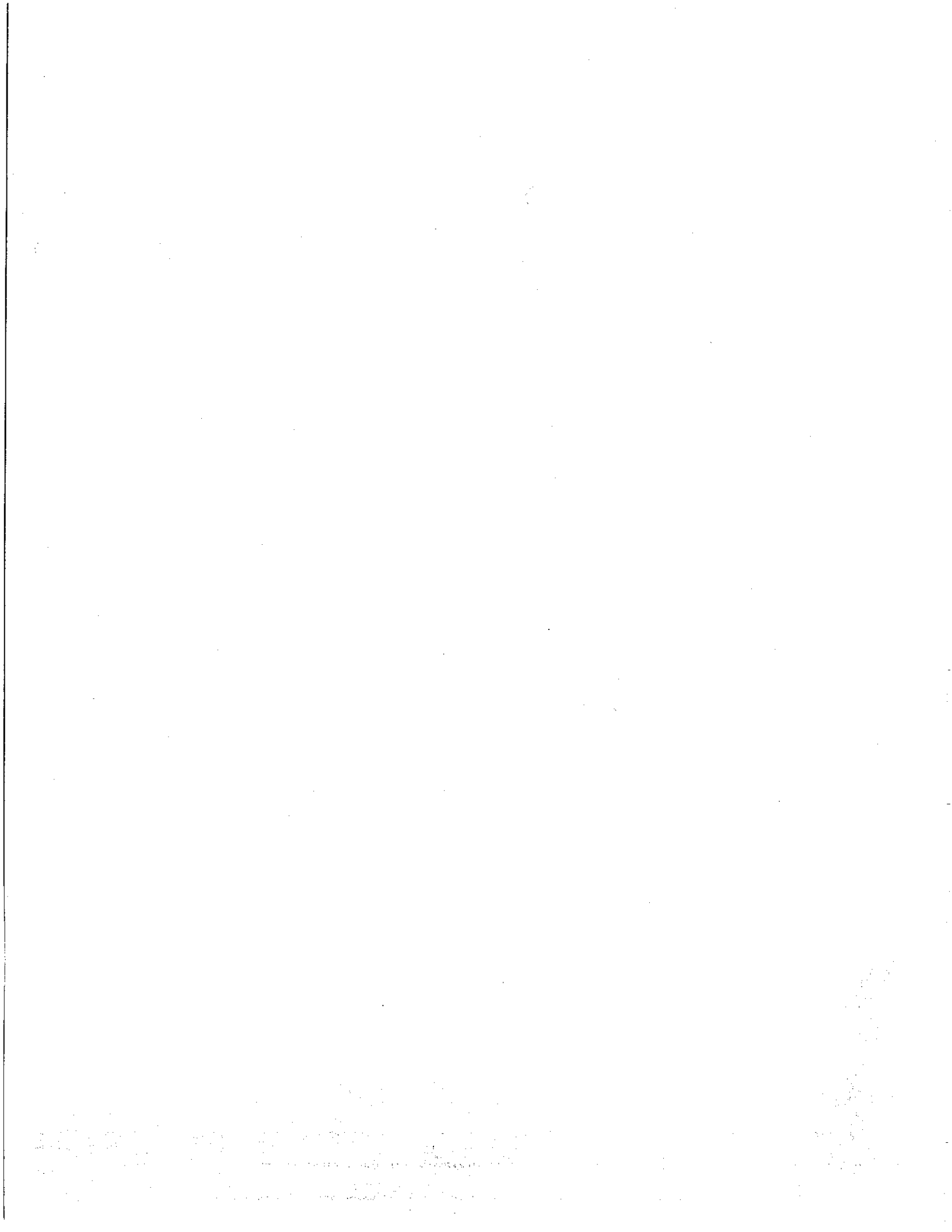
Student Accountability at the start of the school year

Students should be prepared with completed work as they enter into school on the first day. The summer math packet and Dreambox/summer project will count as two separate test grades for the first quarter. If a student fails to complete the work and/or packet(s), a penalty of 20% will be assessed to the test grade. No late assignments will be accepted after the first week of school.

Summer Math Requirements

Students entering into the Quest math group in the fall of 2017 will be required to complete the summer math packet **AND** the summer project. Students entering into the Honors math group in the fall of 2017 will be required to complete the summer math packet **AND** 10 hours of Dreambox with a minimum of 40 tasks. ALL students will be required to show work, NEATLY and NUMBERED. Please follow the directions on whether calculator use is applicable. If there are questions, please email me at tadcock@gcsocala.com.

An email was sent home to your parents with an attachment for the summer math packet and/or summer project. It can also be found on my page on Renweb under this past year, so for incoming 6th grade students it will be found on Mrs. Pendelton's page.



Name: _____ Period: _____

7th Grade Honors Summer Math Packet

Ratios GRP

Find the prime factorization of each number.

1) 27

2) 114

Find the GCF of each set of numbers.

3) 12 and 42

4) 16 and 25

Find the LCM of each set of numbers.

5) 5 and 10

6) 8 and 36

Circle whether it is even or odd. Then, tell whether each number is divisible by 2, 3, 4, 5, 6, 9, or 10.

7) 78

Circle one: Even or Odd

Write yes or no in each space:

2 _____ 3 _____ 4 _____ 5 _____

6 _____ 9 _____ 10 _____

8) 8,505

Circle one: Even or Odd

Write yes or no in each space:

2 _____ 3 _____ 4 _____ 5 _____

6 _____ 9 _____ 10 _____

Write each ratio/rate in simplest form. Don't forget to LABEL!!

9) A class has 5 boys and 15 girls. What is the ratio of boys to girls? _____

10) An animal shelter has 36 kittens and 12 puppies available for adoption. What is the ratio of kittens to puppies? _____

Write each rate as a UNIT RATE in simplest form. Don't forget to LABEL!!

11) David printed 24 photos in 8 minutes. How many photos did he print per minute? _____

12) Vinny decorated 72 cookies in 36 minutes. How many cookies did he decorate per minute? _____

13) Amy is training for a half marathon. In practice, she runs 2 miles in 15 minutes. If she continues at the same rate, how many miles will she run in an hour?

Miles	2		
Minutes	15		60

Number System 6NS

Add or Subtract. Show ALL work!!

14) $112.45 + 6.3$

15) $10 - 3.2$

Multiply. Show ALL Work!!

16) 63.4×9

17) 3.7×2.1

Divide. Round to the nearest TENTH if necessary!! Show ALL work!!

18) $44.64 \div 2$

19) $2.102 \div 0.4$

Order the following from least to greatest:

20) 0.4, $\frac{5}{8}$, 38%, 0.5

Find the percent of each number.

21) 6% of 95

22) 15% of 115

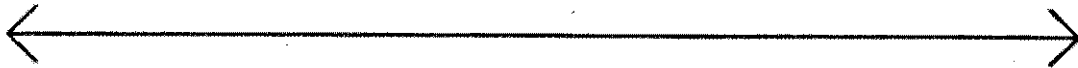
Solve the following percent problems with a proportion:

23) 140 is 70% of what number?

24) 240 is 60% of what number?

Use a double bar line to solve (Show work!)

25) 10 is 25% of what number?



Graph the integers on a number line.

26) { -5, -2, 3, 0 }



Find the opposite of each integer.

27) -2

28) -5

Find the absolute value of each integer.

29) 9

30) -3

Compare using $>$, $<$, or $=$.

31) -2 _____ 5

32) -28 _____ -23

Order the integers from greatest to least.

33) {5, -3, -11, 13}

34) {-8, 25, 32, -16}

Equations 6EE

Directions: Show all your work and your check!

35) $x + 7.2 = 10.8$

✓

36) $y - 12 = 24$

✓

37) $8c = 32$

✓

Statistics 6SP

38) Tina babysat eight times. She earned \$15, \$20, \$10, \$12, \$20, \$16, \$80, and \$18. What is the average amount of money she made?

39) Tommy recorded her test scores in the table.
Find the median and the mode.

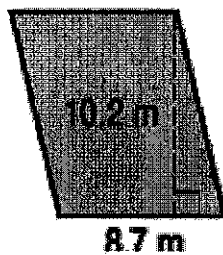
med- _____
mode- _____

Test scores
93
89
88
94
68

Geometry 6G

Please find the area of each figure. Be sure to show ALL work and label!

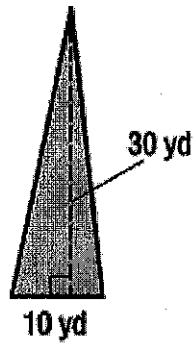
40)



41)

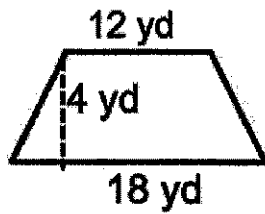


42)

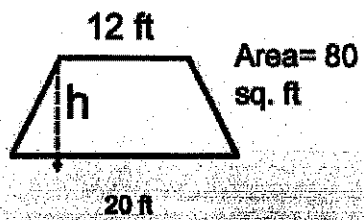


43) The base of the triangular garden is 3 meters and the height is 5 meters. What is the area of the garden?

44)

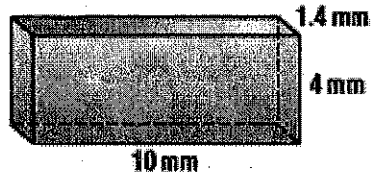


45) Find the height.

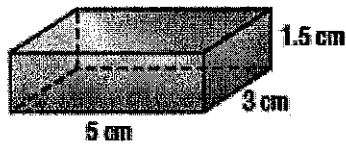


Name each 3-D figure. Find the volume of each figure.

46)



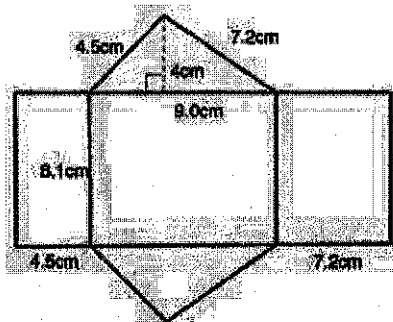
47)



48) Find the height of the rectangular prism if the length is 5 cm, the width is 3 cm, and the volume is 37.5cm^3

Name each 3-D Figure. Find the surface area of each figure.

49)



Have a great summer!!!!

