

Name: _____ Period: _____

6th Grade Summer Math Packet

Ratios 6RP

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

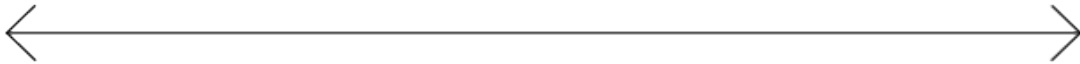
Solve the following percent problems with a proportion:

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.

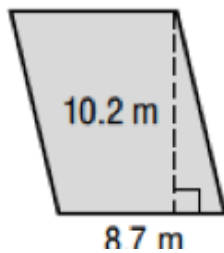
med- _____
mode- _____

Test scores
93
89
88
94
68

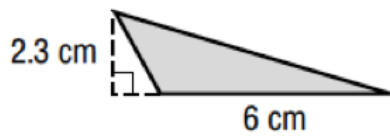
Geometry 6G

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

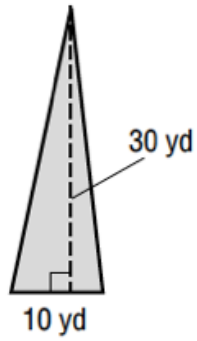
40)



41)

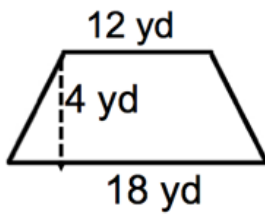


42)

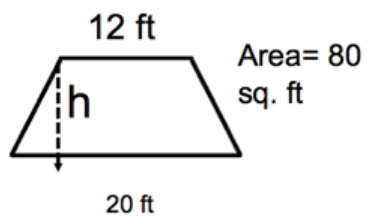


43) The base of the triangular garden is 3 meters and the height is 5 meters. What is the area of the garden?

44)

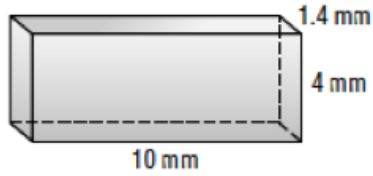


45) Find the height.

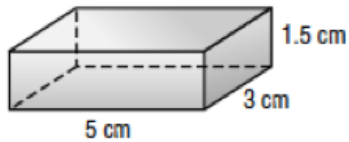


Name each 3-D figure. Find the volume of each figure.

46)



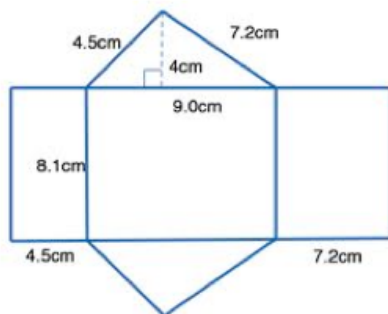
47)



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

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

49)



Have a great summer!!!!