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 x 9

_____

17) 3.7 x 2.1

_____

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

18) 44.64 ÷ 2   _____

19) 2.102 ÷ 0.4   _____

Order the following from <u>least to greatest</u>:

20) 0.4, 5/8, 38%, 0.5   _____

Find the percent of each number.

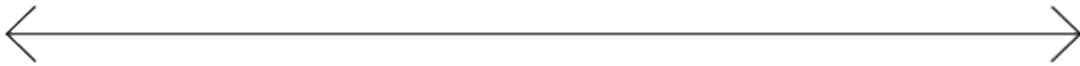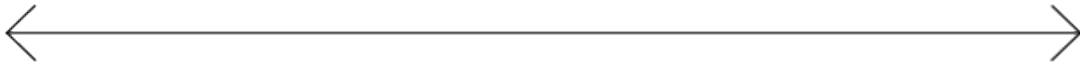21) 6% of 95   _____

22) 15% of 115   _____

Solve the following percent problems with a proportion:

23) 140 is 70% of what number?   _____

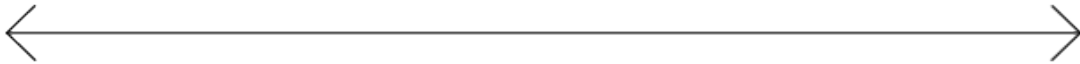24) 240 is 60% of what number?   _____

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.   med-_____
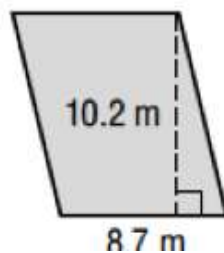Find the median and the mode.   mode-_____

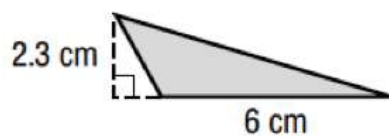| Test scores |
| --- |
| 93 |
| 89 |
| 88 |
| 94 |
| 68 |

Geometry 6G

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

40)   _____

10.2 m

8.7 m

41)   _____

2.3 cm

6 cm

42) _____

30 yd

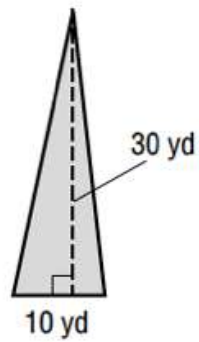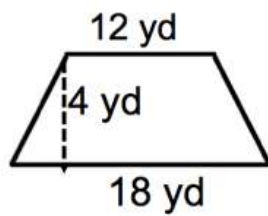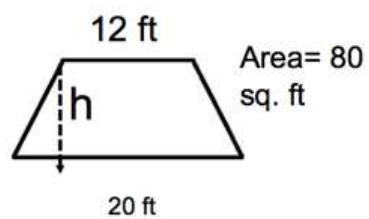10 yd

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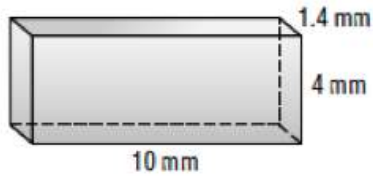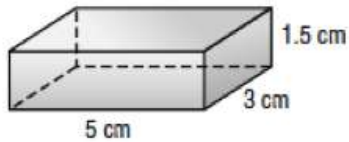3 meters and the height is 5 meters.
What is the area of the garden?   _____

44) _____

12 yd

4 yd

18 yd

45)   Find the height.   _____

12 ft

h

Area= 80
sq. ft

20 ft

Name each 3-D figure. Find the <u>volume</u> of each figure.

46)   _____

1.4 mm

4 mm

10 mm

47)   _____

1.5 cm

3 cm

5 cm

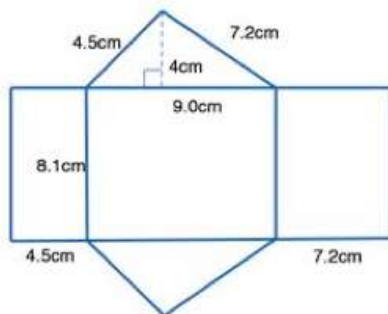48) Find the height of the rectangular prism if the
length if 5cm, the width is 3cm, and the volume is
37.5cm³   _____

Name each 3-D Figure. Find the <u>surface area</u> of each figure.

49)   _____

4.5cm   7.2cm

4cm

9.0cm

8.1cm

4.5cm   7.2cm

Have a great summer!!!!