Name:_____

Summer Math Packet for Students Entering 4th Grade

PART 1: Multiplication & Division

Solve each problem. Show the equation (number sentence) you used to find your answer. Remember to label your answer.

1.) Emily had 42 pencils to share with her 6 friends equally. How many pencils would she give to each one of her friends?

2.) In 1610, Galileo discovered 4 moons orbiting Jupiter. By 1979, scientists had discovered that Jupiter has 4 times as many moons as Galileo saw. How many known moons did Jupiter have in 1979?

3.) Joey, Jake, & John each have 9 marbles. How many marbles do they have altogether?

4.) Zach is putting his books away on a bookcase. There are 5 shelves on the bookcase. Zach has 30 books. How many books should Zach put on each shelf so that each shelf has an equal number of books?

5.)Sophia has 36 sticker sheets and she want to give 4 sheets to each of her friends. How can you tell the number of friends that will receive stickers? Draw a model to support your answer.
Solve each problem.

Draw a model to solve problem:

Explain in words how you solved this problem:

6.) There are 2 columns of 6 stickers on each sheet. I want to give 3 stickers to each student. With how many students could I evenly divide the stickers on 5 sheets? How would you solve this problem? Explain.

7.) A chessboard has 8 rows and 8 columns. Each row has 4 white squares and 4 black squares. Write the expression that would give you the number of black squares on this board.

8.) A tray of muffins contain 6 cups of blueberries. How many cups of blueberries are in 9 trays?

9.) Meg has 48 beads. Each bracelet has 8 beads. How many bracelets does she have? Draw a bar diagram to solve.
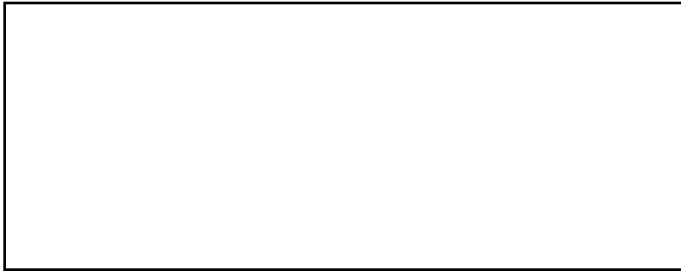
10.) Find y

$7 \times (2 \times 3) = (2 \times y) \times 7$          y = _____

What property is used?          _____

Part 2: Fractions

11.) Draw and shade a picture to show the fractional amount of 1/8 in the box.

12.) Write 2 equivalent fractions for two-thirds

Compare. >,<, or =

13.) 4/5 _____ 4/8                    14.) 2/8 _____ 6/8

15.) For question #14, please draw a model to show that your answer is correct.

16.) Write the fractions 1/4 and 3/4 on the number line.

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17.) Divide the whole into 8 equal parts. Then label each part with its unit fraction.

18.) Michelle & Greg went out for pizza. Each of them ordered an individual pizza. Michelle ate 1/4 of her pizza & Greg ate 1/2 of his pizza. Who had more leftovers for lunch the next day?

19.) A park is 1/2 playground equipment and 1/4 tennis courts, what fractional part would represent the part that is reserved for picnic tables? Draw & label your model.

20.) Order from least to greatest:   3/8, 3/4 and 1/4

PART 3: Geometry

21.) What is the difference between parallel lines and intersecting lines. Explain in complete sentences and then draw an example of each.

explain here:

| Examples - use a ruler when drawing your lines | |
| --- | --- |
| parallel lines | intersecting lines |
| | |

22.)

| Draw an example of each type of angle use a straight edge or ruler when drawing angles | | | |
|---|---|---|---|
| Acute angle | Obtuse angle | Straight angle | Right angle |
| | | | |

23.) How can you use the corner of a notecard to decide if an angle is acute, right, or obtuse? Explain in complete sentences.
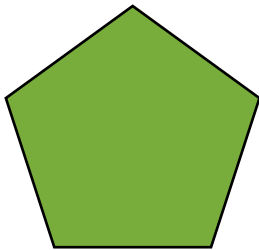
write your complete sentences here:

24.) What kind of angles do you see in the letters E, F, and L?


25.) Name a letter that has 2 obtuse angles?
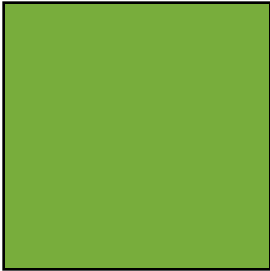

Name the polygon.

26.)

Polygon name: _____


27.)

Polygon name: _____


28.) Three pizzas were cut into 8 slices each. Six friends ate all the pizza, and each person ate the same number of slices. How many slices did each person eat?

29.) Four friends made shapes out of colored paper. Whose shape has only one set of parallel sides?
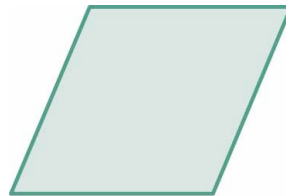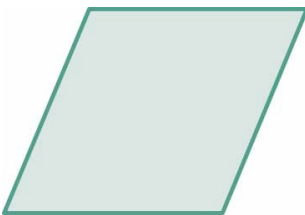
Melissa

Nigel

Pat

Kate

Academy Artworks

_____'s shape only has 1 set of parallel sides.

30.) Explain why a rhombus cannot be called a square.

Academy Artworks

PART 4: Area & Perimeter

31.) Using a ruler, draw rectangle with dimensions 4 cm by 6 cm. Then find the area of the rectangle you drew.

32.) Using a ruler, draw a rectangle with dimensions of 5 cm by 8 cm. Then find the perimeter of the rectangle you drew.

Find the area & perimeter of each figure. Remember labels.
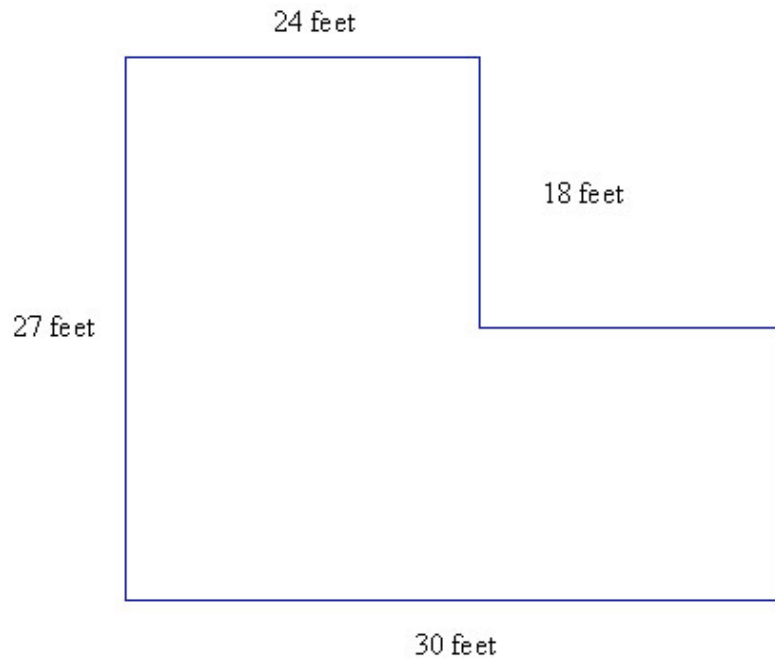
33.)                          18 cm

8 cm

Area: _____        Perimeter: _____
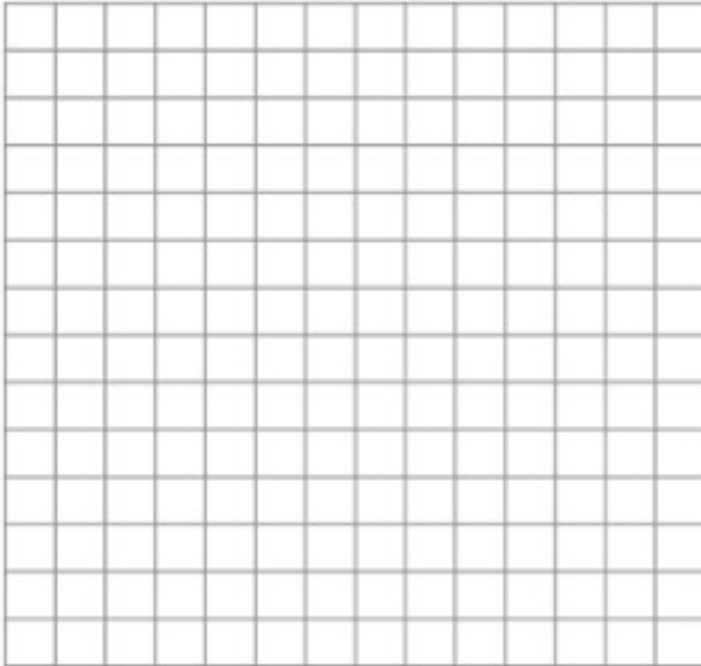
34.)



24 feet

18 feet

27 feet

30 feet

Area: _____ Perimeter: _____

35.) Draw a figure with an area of 24 units squared. Each square is a unit square.

36.) Draw a figure that has a perimeter of 18 units. Each square is a unit square.

37.) Multiple Choice: Carl wants to measure the area of his kitchen floor. Which unit of measurement should he use?
a.) inches
b.) feet
c.) square inches
d.) square feet

38.) Give an example of an area that you would measure in square miles.
_____

39.) Kate's playroom measures 6 feet by 9 feet. What is the area of the playroom?

40.) Find the perimeter & area of the figure. Note that each square has the dimensions of 3 cm by 3 cm.



Hint: What is the area of 1 square? _____

What is the area of the entire figure? _____

What is the perimeter of the figure? _____


PART 5: Measurement

Choose the best estimate for the volume or capacity of each. Circle the answer.

41.) a fish bowl                              1 pint or 1 gallon

42.) a carton of milk
      from the Lace lunch room          1 cup  or  1 pint

43.) kitchen sink                            22 cups or 22 quarts

44.) MULTIPLE CHOICE:
Which measurement best describes the capacity of a bathtub?
a.) 50 cups
b.) 50 quarts
c.) 50 gallons
d.) 50 pints

45.) Gina made 5 pitchers of lemonade. Each pitcher served 9 customers at her lemonade stand. If Gina has 1 pitcher of lemonade left, how many customers did Gina serve?

46.) It is a known fact that a sandgrouse can soak up enough water to fill a small perfume bottle in its fluffy feathers. The sandgrouse can carry the water back to its chicks. Does a sandgrouse carry 20 milliliters or 2 liters of water back to the chicks?

47.) Correct any mistakes in the shopping list:

     2 L of apples
     3 kg of milk
     5 cm of flour

48.) Do small objects always weigh less than large objects? Use examples to explain your thinking.

49.) You need to decide which container of apple juice to buy. You need about 2 drinking glasses of apple juice for a recipe. Which container should you buy - the 250 mL or the 1 L of apple juice? Explain your answer.

50.) Peter has 120 L of water equally in 3 containers. How many liters has he poured into each container?
Draw a bar diagram to solve.