7

MIFFLIN MIDDLE SCHOOL'S

Summer Learning Packet

Incoming 7th Graders (you were a 6th grader last year)

READING

Choose **at least one book** to read over the summer that is either **ON your Lexile level or one step above it**. On a separate sheet of paper, answer the following questions about your book. This can be written neatly, typed, or put into a PowerPoint presentation. Be sure to include the TITLE and author of each book you read.

<div align="center">

6th graders: answer 6 questions

7th graders: answer 7 questions

8th graders: answer 8 questions

</div>

You may earn extra credit points for completing any activity of your choice. This is optional.

1. Before Reading: Make a prediction. Take a moment to predict what your book is going to be about.

2. Who are the main characters and what important things have you learned about them? Identify the protagonist and antagonist.

3. Describe or draw the setting IN DETAIL. Where in when does the story take place?

4. From what point of view is the story being told and how do you know? (first person or third person).

5. What was your favorite part of the story and why?

6. List one fact and one opinion from the story. Did you agree with the opinion? Please explain.

7. Make a personal connection with the story. What is something that you have experienced in the story?

8. Compare the book with another book you have read before in your life. Which one did you like better and why? Please be specific and give details.

Please also get on A c h i e v e 3 0 0 0 daily and keep a log of your time on the back of this packet.

SOLVE ALL MATH PROBLEMS **WITHOUT A CALCULATOR** AND <u>SHOW ALL WORK</u> **IN PENCIL**

You'll be responsible for handing in the completed packet with all work shown on the FIRST DAY OF SCHOOL. THIS WILL BE YOUR FIRST GRADE.

The packet is a representation of the types of items you learned in Math last year. It will be GREAT review and keep all of the concepts in your brain so you start your school year feeling confident and knowledgeable.

Please also get on A L E K S to practice Math on a regular basis. Keep a log of your time and topics learned on the back of this packet.

OPERATIONS AND ALGEBRAIC THINKING

1) Write a numerical expression for the product of nine and seven.

2) Write the first five terms in the pattern, starting with the number zero:

   The rule: add 17.

   _____,_____,_____,_____, _____

3) Simplify   **28 – 24 ÷ 3 + (17-9)**

4) Complete the table. Write a rule for completing the table:

Input	Output
3	18
5	30
8	48
	54
	72

Rule: _____

5) The table below shows the number of gallons of gasoline in the gas tank each second as it fills. If the pattern continues, how much gas will be in the tank after 6 seconds?

Seconds Pumping Gasoline	1	2	3	4
Gallons in the Tank	0.15	0.30	0.45	0.60

6) Which expression shows how to solve 7×63 with mental math.

    A. $(7\times6)+(7\times3)$

    B. $(7\times60)+(7\times3)$

    C. $(7\times60)+(7\times30)$

    D. $(7\times6)+(7\times30)$

NUMBER AND OPERATIONS IN BASE TEN

7) Write the number *eight and twenty − eight thousandths* in standard form.

8) Order the following from greatest to least:

$$27.041, \quad 27.014, \quad 27.104, \quad 27.410$$

_____,_____,_____, _____

9) Write the following in standard form.

$$(3\times100) + (7\times10) + (2\times1) + \left(5 \times \frac{1}{10}\right) + \left(8 \times \frac{1}{100}\right)$$

10) Write 10^4 in standard form. _____

11) Megan's check for lunch at Luigi's Pizzeria was $13.87. She paid with a $20 bill. How much change did she receive?

12) Describe the rule for the following pattern and name the next three terms.

120,000   12,000   1,200   120   _____   _____   _____

Rule: _____

13) Insert $>$, $<$ **or** $=$ to make the following statement true. **0.055_____0.20**

14) Write **3, 409. 7** in expanded form.

_____

15) What is the **place value** of the underlined digit in the number below?

561.2<u>9</u>8   _____

16) Round **273. 452** to the nearest tenth. _____

17) What is the **value** of the underlined digit in the number below?

57,035.18<u>9</u>   _____

18) Simplify the expression. $16 \div 4 + (20 - 10 + 3) \times 2$

Directions: Find the sum, difference, product, or quotient. Show all work.

19) $3,684 \div 12 =$	**20)** $5,906 \times 87 =$
21) $27 + 8.7 =$	**22)** $6864 \div 2 =$
23) $9172 - 316 =$	**24)** $5000 - 987 =$
25) $6 - 2.98 =$	**26)** $596 + 1,238 + 26 + 5 =$

27) Katie works 2 days a week after school. On Monday she works $2\frac{Q}{R}$ hours and

on Wednesday she works $3\frac{R}{S}$ hours. How many more hours does she work on

Wednesday?

28) It takes $\frac{S}{T}$ cup of ice cream and $\frac{Q}{R}$ cup milk to make a milkshake. How many

cups is that altogether?

29) Jimmy lives $\frac{u}{v}$ of a mile from school. Billy lives twice as far as Jimmy. How far does Billy live from school?

30) Three students shared a pizza. One student ate $\frac{Q}{W}$ of the pizza, another ate $\frac{Q}{T}$ of the pizza and the third student ate the rest. What fraction of the pizza was the third student's portion?

31) $\frac{Q}{V}$ of the seats in the auditorium were reserved for parents and $\frac{Q}{W}$ of the seats were reserved for the teachers. What fraction of the seats were left for general admission?

Directions: Find the sum or difference. Show all work.

32) $3 - 1\frac{R}{S} = \ =$

33) $\frac{Q}{U} + \frac{S}{T} =$

34) $1\frac{X}{W} - \frac{R}{S} =$

35) $8 - 3\frac{U}{Y} =$

36) $3\frac{Q}{V} - \frac{R}{S} =$

37) $3\frac{S}{T} + 1\frac{R}{S} =$

MEASUREMENT AND DATA

38) Leah is $52\ inches$ tall and Carol is $4\ feet\ 7inches$ tall.

Which girl is taller?	How much taller is she?

39) Find the area of the rectangle.
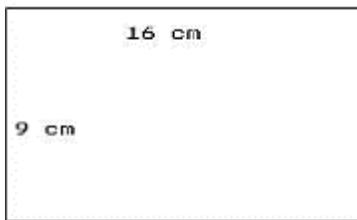
	Show your work here.

16 cm

9 cm

40) What is the volume of the figure shown? All units are measured in feet**. Label your answer.**

Show all work here.

8

4

4
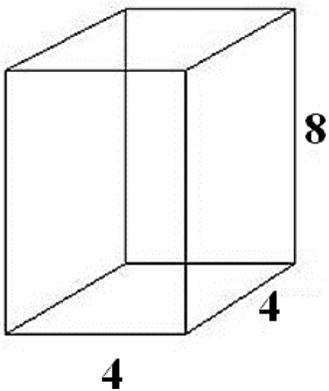
**41)** Louis's sandbox is 7 *feet wide*, 5 *feet long*, *and* 2 *feet deep*. What's the volume of the sand box?

42) Classify each triangle below by its **sides** and **angles:**
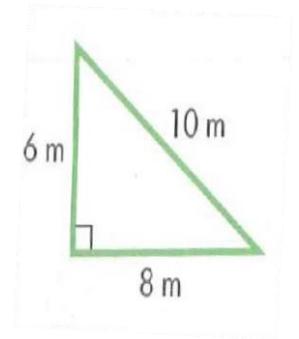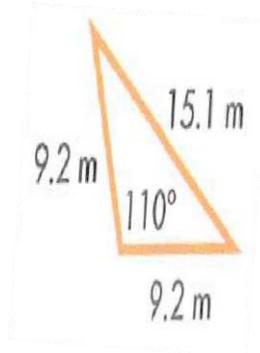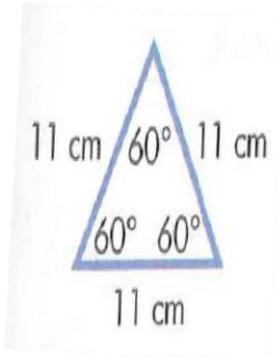
Side:	Side:	Side:
Angle:	Angle:	Angle:

43) A class was picking straws from a big pile and then using a ruler to measure the length of each straw. They recorded the lengths of the straws picked in the line plot below. Use the line plot to answer the questions that follow.
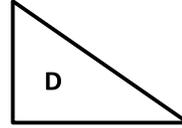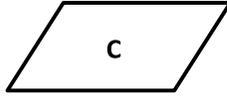
Lengths of Straws

Length (inches)
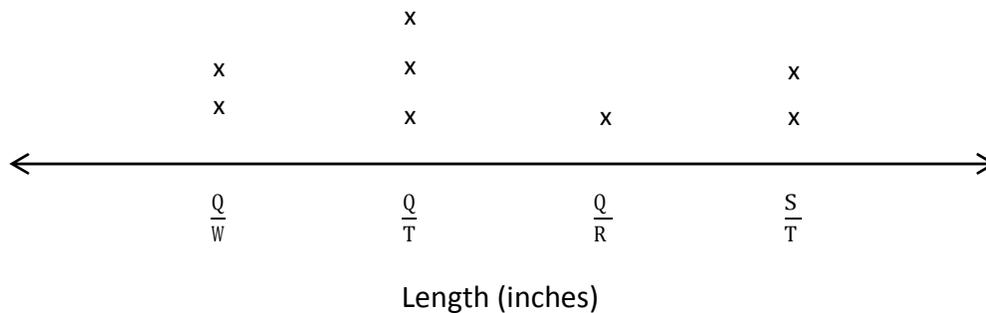
a) Which straw length was the most frequent?	**b)** How many students are in the class?

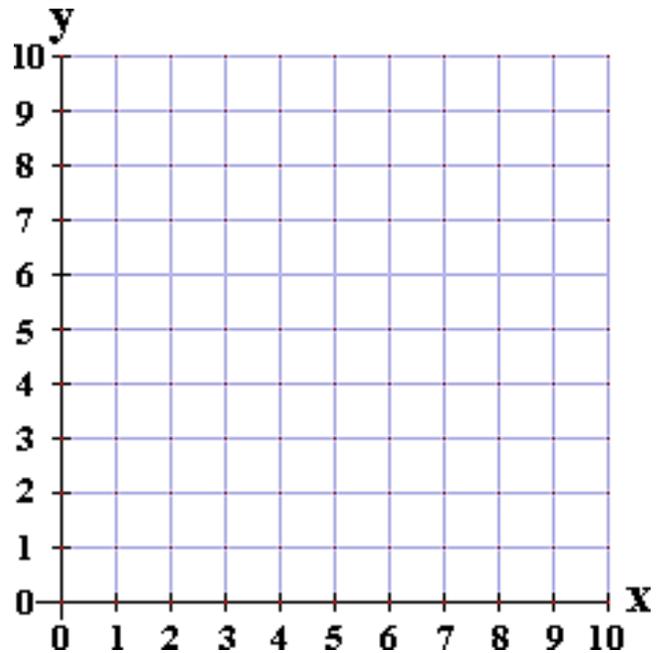## GEOMETRY

44) Which quadrilateral has two acute angles, two obtuse angles, and two pairs of opposite parallel sides?

A   B   C   D   E

45) Plot the following points on the coordinate plane: A (1,2) B (1,5) C (5,5) D (5,2)

- Connect the points

- Name the figure_____

- Find the area of the figure _____

46) Use the clues below to identify the figure:

- My figure has four sides.
- My figure has opposite sides that are parallel.
- All of my figure's sides are congruent.
- My figure has two obtuse angles and two acute angles.

Name of the figure: _____

Directions: Write the letter of all the shapes above that fit into each of the categories below.
(You may use a shape more than once.)
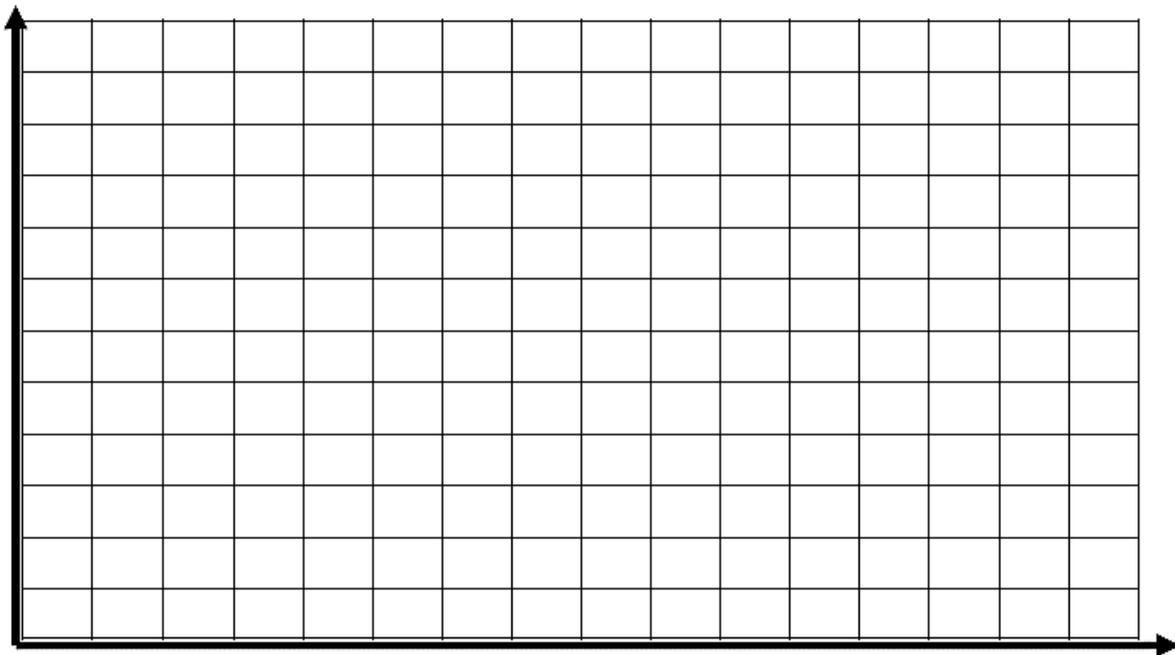
47)
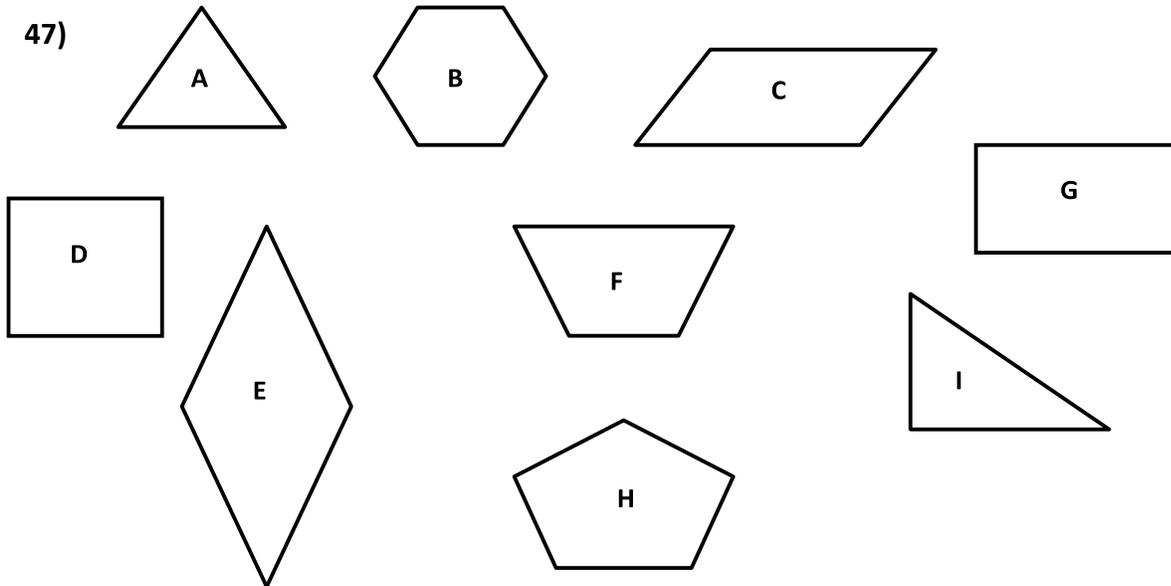
Contain at least 1 right angle_____

Parallelogram _____

Quadrilateral_____

Rectangle_____

48) The temperature in Michelle's house from 9:00 a.m. **to** 7:00 p.m. is recorded in the table below. Make a line graph to display the information. <mark>Remember to label the graph and give it a title.</mark>

Time	9 am	11 am	1 pm	3 pm	5 pm	7 pm
Temperature	65°	60°	63°	68°	65°	60°

What was the **approximate** temperature in Michelle's house at 2:00 pm? _____

What was the **difference** in temperature from 1:00 p.m. to 3:00 pm? _____