

5th Grade
Here We
Come!

Dear Parents/Guardians and Students,

We hope you enjoy a restful and relaxing summer vacation. However, the 5th grade year is rapidly approaching. Similar to the summer reading program, teachers have developed a math packet for students to complete prior to the start of 5th grade.

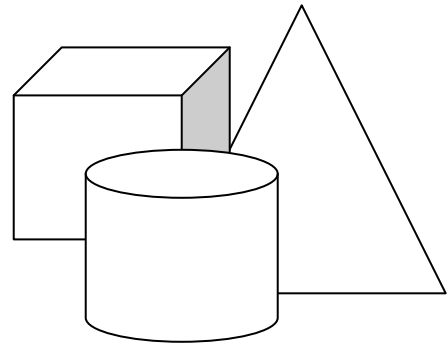
This packet covers skills learned by your child this year in 4th grade. The primary motivation for this packet is to refresh and maintain these skills so that less class time in September is spent on review. No concept in this packet should be new to your child.

We recommend that you and your child work together throughout the summer months to complete this packet by the start of school. Please do and **show all** work in pencil, no calculators are to be used. We encourage you to assist your child as needed. The following websites may also be useful in assisting your child: <http://www.mathisfun.com> and http://www.internet4classrooms.com/skills_4th_math.htm. This packet will be collected within the first week of school and will be scored as a **quiz grade**.

We thank you very much for the effort and support in making the start of the 5th grade school year a success. We hope you enjoy the summer vacation, and we look forward to working with your child this coming fall.

Sincerely,

Grade 5 Teachers
Ashby, Nissitissit, & Hawthorne Brook



Name: _____

Summer Math Packet
Students Entering 5th grade

1) Draw a right angle.

2) Write the following in word form.

3,690,428 _____

3)
$$\begin{array}{r} 6.32 \\ \times 4 \\ \hline \end{array}$$

4) Subtract and simplify:

$$\frac{11}{12} - \frac{7}{12} =$$

5) Complete the input/output table using the rule listed:

Rule: $n + 6$				
IN	2	5	7	9
OUT				

6) In which of the numbers below does the 7 have 10 times the value of the 7 in this number: **8,473**?

a) 7,026

b) 5,714

c) 9,387

7) Fill in the blanks with the word that correctly identifies its part in a division problem:

$$\begin{array}{r} 612 \\ 2 \overline{)1224} \end{array}$$

(divisor, dividend, quotient)

8) Johnny Shortpants ate $\frac{1}{4}$ of his sandwich at 10:15. He ate $\frac{1}{4}$ more at 11:30. How much of his sandwich did Johnny eat?

Find the common factor(s) of each pair of numbers.

9) 15 and 6

10) 12 and 16

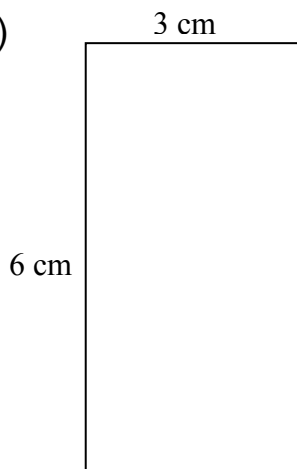
11) Complete the following tally chart with the number of hours you spent playing outside this week.

Hours Spent Playing Outside

Day of the Week	Number of Hours
Mon.	
Tues.	
Wed.	
Thurs.	
Fri.	
Sat.	
Sun.	

Using the information in the tally chart above create a pictograph or bar graph below. (Hint: title, labels, axis, key)

12)



Perimeter: _____

Area: _____

13) Using the model below, write the number given in expanded form.

$$\text{Ex. } 238 = (2 \times 100) + (3 \times 10) + (8 \times 1)$$

$$4,156 = \underline{\hspace{10cm}}$$

14) Find the product.

$$\begin{array}{r} 2,143 \\ \times \quad 62 \\ \hline \end{array}$$

15) In a bouquet of roses, 6 are pink, 5 are yellow, 16 are red, and 3 are white. If you pick a rose without looking, what color rose will you **likely** pick?

a) red

b) pink

c) white

d) yellow

16) Susie Sunshine had a ribbon that was 2 feet long. Johnny Shortpants had a ribbon that was 28 inches long. Who has the shorter ribbon?

17) $20 \div \Delta = 5$

$$\Delta \times 6 = 24$$

$$\Delta = \underline{\hspace{2cm}}$$

Name three geometric shapes with at least one set of parallel lines.

18) _____

19) _____

20) _____

21) Write a decimal with 8 in the ones place, 1 in the tenths place, and a 9 in the hundredths place:

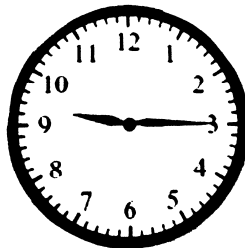
22) Complete the input/output table using the rule listed.

Rule: $n \times 3$	
IN	OUT
2	
	9
6	

23) $855 \times 30 =$

- a) 2,565
- b) 24,550
- c) 25,650
- d) 25,880

24) Three classes will go to the book fair at Carter Elementary School. The first class will arrive at the book fair at the time shown on the clock.



a. At what time will the first class arrive at the book fair?

Each class will spend 30 minutes at the book fair and then leave. The second class will arrive at the book fair as the first class leaves, and the third class will arrive as the second class leaves.

b. What is the total amount of time that all three classes will spend at the book fair? Show or explain how you got your answer.

- c. What time will it be when the third class **leaves** the book fair? Show or explain how you got your answer.

25) Which of the following numbers are common factors of 36 & 63?

3

4

6

9

12

26) Add and simplify:

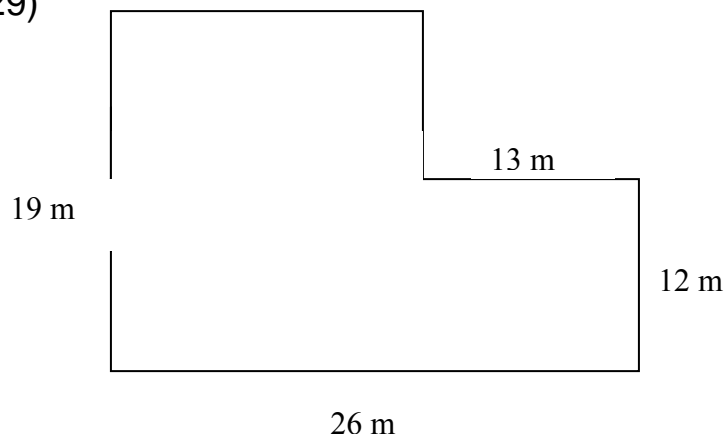
$$\frac{3}{5} + \frac{7}{10} =$$

27)

$$5 \overline{)637}$$

28) Draw a triangle with one obtuse angle.

29)



Perimeter: _____

Area: _____

30) What is the probability of a student rolling an odd number using a number cube labeled 1-6?

31) List all of the odd numbers that could appear on the cube from question # 30.

32) Which of the following numbers are common multiples of 6 and 9?

9

18

27

36

45

33) Use the data in the table to determine the rule.

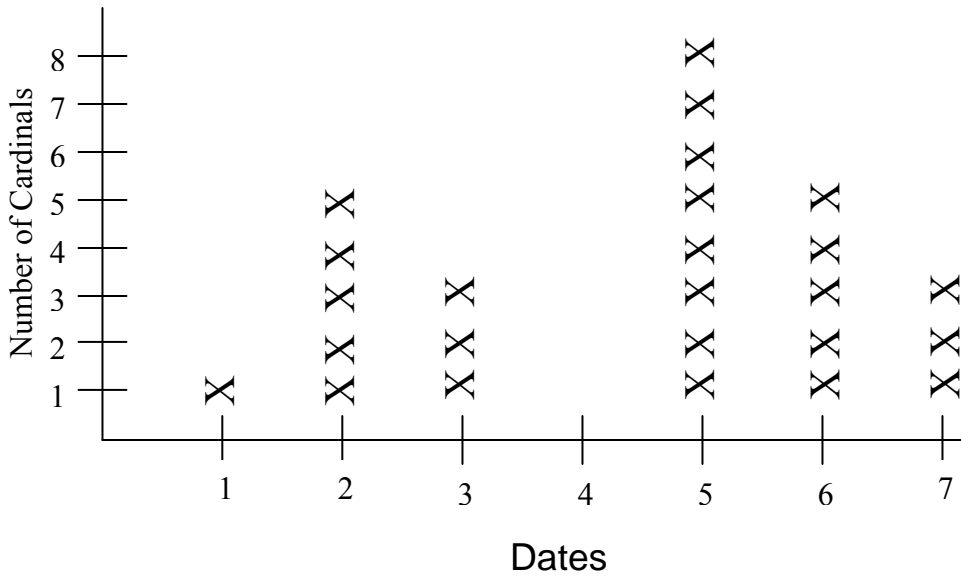
Rule: ?	
IN	OUT
8	4
4	0
12	8
15	11

Rule = _____

34) Write $\frac{7}{10}$ as a decimal.

35) $16.5 + 8.7 =$

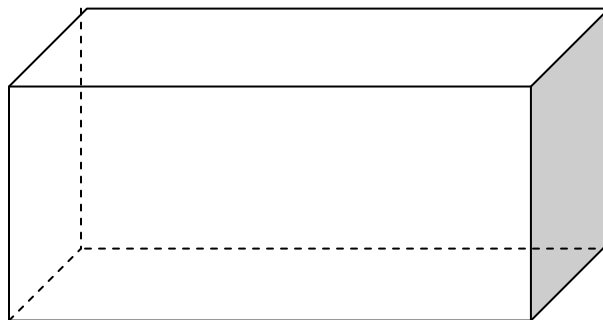
- 36) Lana is tracking the number of Cardinals landing on her bird feeder between 12 and 1 p.m. each day for a week. Finish transferring the data from the graph to the chart.



Dates	Number of Cardinals
1	1
2	5

- 37) Draw an acute angle.

Use the 3-dimensional figure below to answer questions 38 & 39.



- 38) How many edges does the rectangular prism have?
- 39) One face of the prism is what 2-dimensional shape?

40)

$$7 \overline{)1.421}$$

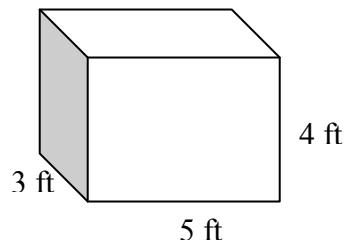
Find a common multiple of each set of numbers.

41) 3 and 4

42) 6 and 8

42) Write 0.46 as a fraction.

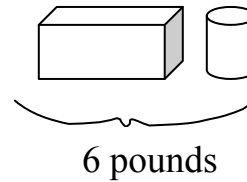
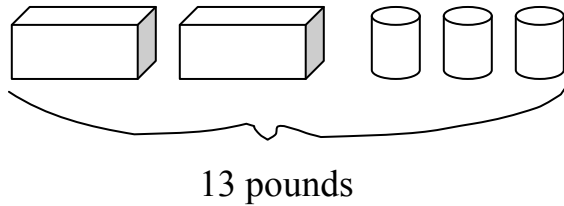
43) Find the volume of the rectangular prism.




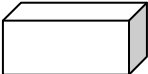
$$V = \underline{\hspace{2cm}}$$


44) What is the probability of not rolling a 1 using a number cube labeled 1-6?

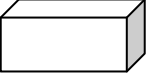
45) Mrs. Lin made the models shown below.


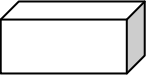


Each  has the same weight.

Each  has the same weight.

a. What is the weight, in pounds, of 1 ? Show your work or explain how you found your answer.

b. What is the weight, in pounds, of 1 ? Show your work or explain how you found your answer.

c. What is the **least** number of  and  that have a total weight of 21 pounds? Show your work or explain how you found your answer.

Optional Challenge Problems

1) What number is missing from this series?

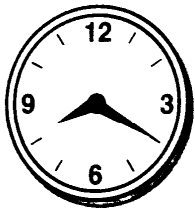
5 7 12 ? 31 50

2)

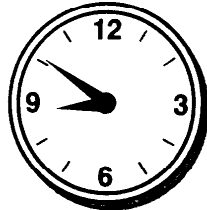
3)

4)

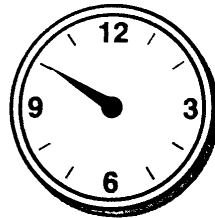
2) Work out how much time has elapsed between each clock shown.
What time should the fifth clock show?



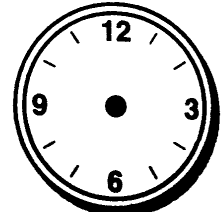
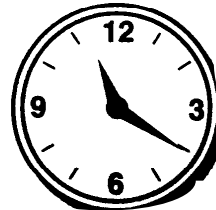
1



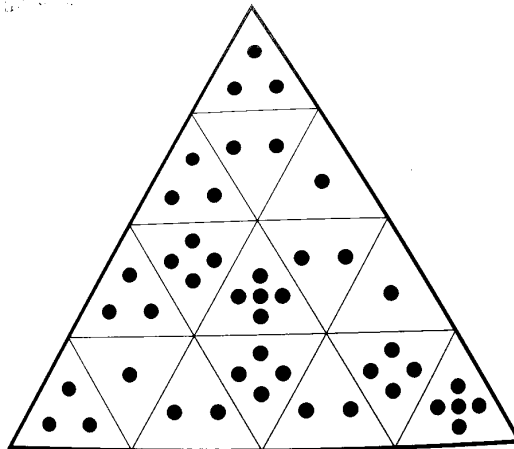
2



3



3) How many triangles in the large triangle below contain dots adding up to a multiple of three? Be careful! The triangles may be upside down and of any size.



- 4) Can a triangle have two right angles? _____
- 5) How many centimeters are there in three meters? _____
- 6) What is the shortest distance between two points? _____

- 7) What does congruent mean? _____

- 8) Will perpendicular lines ever touch? _____
- 9) Which weighs more, a pound of feathers or a pound of bricks?

- 10) What are the Roman numerals for 176? _____
- 11) How many zeros are in a billion? _____
- 12) What Mathematical instrument is used to measure an angle?

- 13) How many sides does a decagon have? _____
- 14) What is 3 squared? _____
- 15) Which number is a palindrome, 654 or 606? _____