Winter Break Study Packet

Name:	Period:

- 1. List all the factors for the number 60.
 - a. 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60
 - b. 1, 2, 4, 5, 10, 20
 - c. 1, 2, 3, 4, 7, 14, 15, 20, 30, 60
 - d. 1, 2, 3, 4, 5, 10
- 2. Mrs. Wu wrote the following sets of numbers on the board:

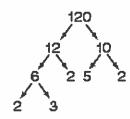
Set A	4	8	12	16	20	24	
Set B	3	5	7	9	11	13	
Set C	2	3	5	7	11	17	
Set D	3	6	9	12	15	18	

Which set of numbers is made up of only prime numbers?

- a. Set A
- b. Set B
- c. Set C
- d. Set D

- 3. Find the common denominator (Least Common multiple) for the following fractions.
 - $\frac{5}{6}$
- $\frac{4}{5}$
- $\frac{3}{4}$

- 4. Alejandro and Jean are distributing erasers and pencils to the art class. There are 40 erasers and 25 pencils. Each student receives the same number of pencils and the same number of erasers, and no supplies are left over. What is the greatest number of students in the class?
- a. 10 students
- b. 200 students
- c. 65 students
- d. 5 students
- 5. Zoia made this factor tree to find the prime factorization of 120.



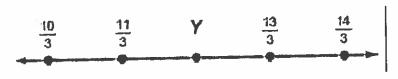
What does the tree show as the prime factorization of 120?

- a. 2 x 3 x 5
- b. 2x2x3x5
- c. 2 x 2 x 2 x 3 x 5
- d. 2x2x2x3x3x5

6. Kirby and Cynthia each ate the same amount of their own pizza. Kirby ate $\frac{4}{12}$ of his pizza.

What fraction of her pizza could Cynthia have eaten?

- a. $\frac{4}{10}$
- b. $\frac{3}{9}$
- c. $\frac{8}{12}$
- d. $\frac{2}{3}$
- 7. Fred is converting mixed fractions to improper fractions and plotting them on this number line.



Which number should he use to name the point Y?

- a. $2\frac{2}{3}$
- b. $3\frac{1}{3}$
- c. $3\frac{2}{3}$
- d. 4

2. Temperatures (in degrees Fahrenheit) in Portland, Maine during the one week in January:

a. Place these temperatures in order from coolest to warmest.

b. What is the median temperature?

c. Make up another set of temperatures for one week in Portland during January with a range of -22° to 10°.

- 3. Make the number sentence true by placing the correct symbol in the box: >, <, or =.
- -6 b. 9
 - -12 d. -17

0.000 0.000 0.000 11 11 1	Justify your solution.
3. Shrya needed 3 cups of flour for a recipe. She could only	Justify your solution.
find a $\frac{1}{4}$ -cup measuring cup. How can she figure out how many	
times she must fill a $\frac{1}{4}$ -cup measuring cup to get 3 cups.	
,	
4. In the refrigerator, Teguh found $\frac{3}{4}$ of a pizza. He ate $\frac{1}{6}$ of	Justify your solution.
what was there. How much pizza did he eat? Use pictures such	
as an area model or number line to solve this problem.	
5. Carletta bought 14 yards of string to make shoelaces for her	Justify your solution.
basketball team. She estimates that it takes $\frac{2}{5}$ yard to make	
one shoelace. How many shoelaces can she make?	
one shoetace. How many shoetaces can she make:	

a T	Justify your solution.
3. Express the shaded region of the grid as a fraction, a decimal,	Justify your solution.
and a percent.	
•	
SAI I I REI	
State Same Contract and Same	
4. The girls' softball team went out to the local pizza restaurant to	Justify your solution.
4. The girls softball teath went out to the local pizza restaurant to	, ,
celebrate their victory. The bill came to \$80. What would be the	
amount of a 15% tip on this bill?	
	'a
	i
The amount of a 15% tip on the bill of \$80 is	
•	
	T
5 Estimate the product.	Justify your solution.
12.3 × 4.2	

Name:	Period:	Date:
		
Short Answer		
1.		Justify your solution. Explain why you
		chose the answer you did. Use math
		vocabulary when possible.
0000		
What is the ratio of the total number of dots to	the number of grey	
dots? Show your work.	-	
2. Lorreen sells 18 adult tickets, 23 student tic	kets and 10	Justify your solution.
discount tickets for the school play. Write the		
tickets to adult tickets in three ways.		
3		Justify your solution.
You pay \$4.5 for 9 bagels. What is the unit price?		

Add, Subtract, Multiply, or Divide

$$1.1 + 2.8$$

$$3.5 + 6.14$$

$$9.242 + 0.87$$

$$1.306 + 5.5 + 46.77$$