

ENRICHMENT MATH WORK




Name _____



Show Time!





Use the data given to write the number of tickets that were sold each day in standard form, expanded form, and word form. **Number Sense**

Ticket Code

 = 100 tickets  = 10 tickets  = 1 ticket

Ticket Sales

Opening Night—         

Day 2—          

Day 3—     

Day 4—           

Day 5—          

1. Opening Night ticket sales _____

2. Day 2 ticket sales _____

3. Day 3 ticket sales _____

4. Day 4 ticket sales _____

5. Day 5 ticket sales _____

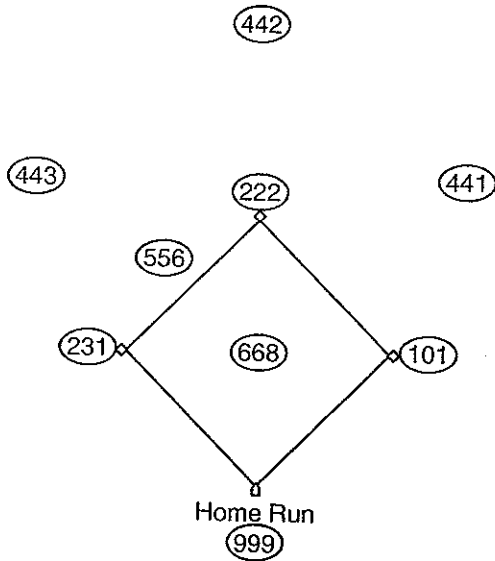
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Baseball by the Numbers

In this math baseball game, each position is marked with a number value. If the ball lands on any of the positions shown, you will score points. Which two position number values would the ball have to land on in order to get the sums listed below?

Number Sense



1. Sum = 332 _____
2. Sum = 884 _____
3. Sum = 665 _____
4. Sum = 543 _____
5. Sum = 769 _____
6. Sum = 453 _____
7. The sum of which two numbers would equal a home run?

8. The sum of which two numbers would equal more than a home run?

9. What is the lowest score for two numbers?

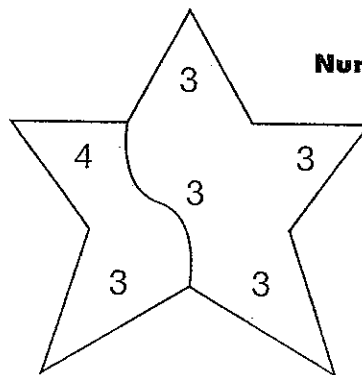
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Separate the Shapes

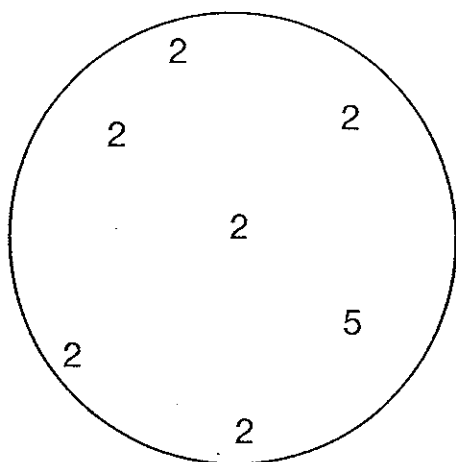
Draw one line to separate the numbers.
The sum of the numbers in one part must be equal to the product of the numbers in the other part. Then write an addition and a multiplication sentence to show the number in each part. An example has been done for you.

Number Sense

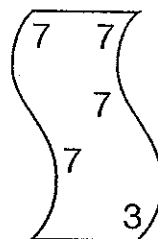


$$3 + 3 + 3 + 3 = 12$$
$$4 \times 3 = 12$$

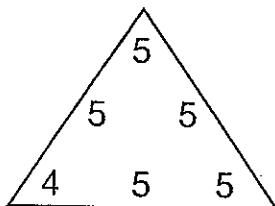
1.



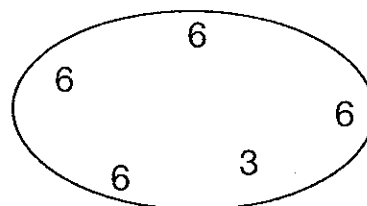
2.



3.



4.



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Shelve That Idea

Janice wants to fill her shelves with books. Her bookcase has 5 shelves above her television and 2 shelves below the television. She needs 9 books to fill each shelf.

Reasoning

1. Draw the correct number of books on each shelf.

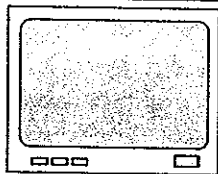
Shelf 1 

Shelf 2 _____

Shelf 3 _____

Shelf 4 _____

Shelf 5 _____



Shelf 6 _____

Shelf 7 _____

2. What multiplication sentence shows the number of books in all?

3. How many books does she need to fill the shelves above the television? Write the multiplication sentence.

4. How many books does she need to fill the shelves below the television? Write the multiplication sentence.

5. **Writing to Explain** Explain how Janice's bookshelves show breaking apart to multiply by 7.

Name _____

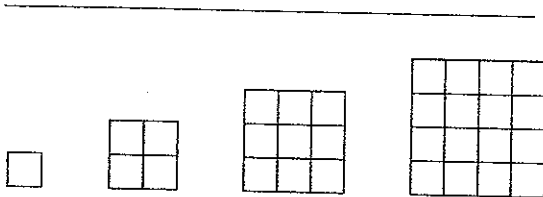
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Geometric Patterns

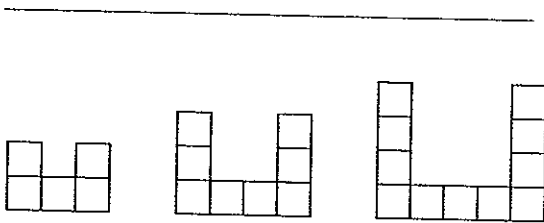
Use objects or draw pictures to solve these problems.

Visual Thinking

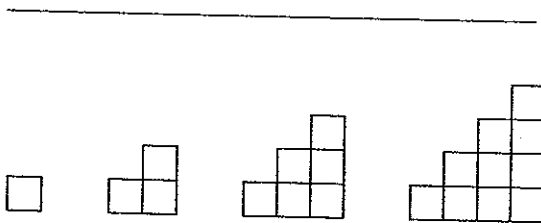
1. If you continued this pattern, how many cubes would be in the sixth figure? Make a drawing to show what the figure would look like.



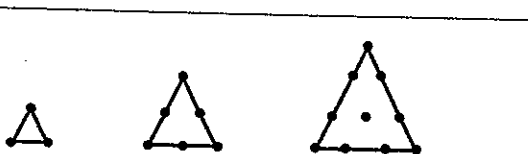
2. If you continued this pattern, how many cubes would be in the next figure? Make a drawing to show what the figure would look like.



3. If you continued this pattern, how many cubes would be in the sixth figure? Make a drawing to show what the figure would look like.



4. If you continued this pattern, how many dots would be in the next figure? Make a drawing to show what the figure would look like.



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Follow the Rules

Reasoning

1. Read the rule in each column and row. Then write a number in each box that fits the rules in its column and row. Do not use any number more than once.

	has 8 as a factor	is less than 100	has 9 as a factor
has 4 as a factor			
has the digit 3 in it			
has 4 in the tens place			
is an even number			
has 6 in the ones place			

2. Now make your own chart like the one above. When you are finished, give it to a classmate to fill in. Make sure your chart does not ask for a number that cannot be made, such as "an odd number that has 2 as a factor."

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Match Up

Match each word phrase with the correct expression.

Algebra

- | | |
|---|----------------------------|
| 1. 5 more than 2 times 4 | A. $20 - (4 + 6 + 5)$ |
| 2. 5 less than twice 4 | B. $(4 + 6 + 5) + 20$ |
| 3. the total of 4, 6, and 5 subtracted from 20 | C. $(2 \times 4) + 5$ |
| 4. the sum when 4, 6, and 5 is added to 20 | D. $(2 \times 4) - 5$ |
| 5. the difference when the sum of 6 and 7 is taken away from 35 | E. $(36 + 4) \div 4$ |
| 6. the total when the sum of 6 and 7 are added to 35 | F. $(36 \div 4) + 3$ |
| 7. the sum when 36 is divided into 4 groups and then added to 3 | G. $35 + (6 + 7)$ |
| 8. 36 plus 4 divided by 4 | H. $35 - (6 + 7)$ |
| 9. the quotient that shows 40 divided by half of 10 | I. $40 \div (10 \times 2)$ |
| 10. the quotient that shows 40 divided by 10 times 2 | J. $40 \div (10 \div 2)$ |

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What's in a Word?

Words are made up of both consonants and vowels, and all letters are either consonants or vowels. **Y** may be used as a vowel in some cases. In the following, let **y** be used only as a consonant.

Data

1. Complete the table by writing a fraction for the number of consonants and a fraction for the number of vowels in each word. The first one has been done for you.

Word	Consonants	Vowels
Trombone	$\frac{5}{8}$	$\frac{3}{8}$
Label		
International		
Porpoise		
Success		
World		
Apology		
Language		

2. Complete the table by writing a word that fits the fraction of consonants and the fraction of vowels shown. The first one has been done for you.

Word	Consonants	Vowels
Visit	$\frac{3}{5}$	$\frac{2}{5}$
	$\frac{2}{4}$	$\frac{2}{4}$
	$\frac{4}{7}$	$\frac{3}{7}$
	$\frac{3}{6}$	$\frac{3}{6}$
	$\frac{5}{8}$	$\frac{3}{8}$
	$\frac{3}{4}$	$\frac{1}{4}$
	$\frac{2}{5}$	$\frac{3}{5}$
	$\frac{2}{3}$	$\frac{1}{3}$

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Field Trip Planning

Your class is planning a field trip to the science museum. You have been asked to make a schedule. You need to show the start time and end time at each location you choose. The length of time the class will stay at each location is shown in the chart to the right.

The trip will begin at 10:00 A.M. and will need to end by 4:30 P.M. You need to have lunch on your schedule. Leave 5 minutes between locations for time to get from one place to another place.

Decision Making

Location	Total Time Allowed
Animal Habitats	2 hours, 10 minutes
Bugs and Plants	1 hour, 20 minutes
Colors and Light	1 hour, 15 minutes
Electricity	30 minutes
The Human Body	2 hours, 5 minutes
Lunch Room	45 minutes
Machines and Robots	35 minutes
Ocean Life	2 hours
Surrounded by Sounds	40 minutes

Field Trip Schedule

Location	Beginning Time	Ending Time
	10:00	

What is the total elapsed time for your field trip schedule?