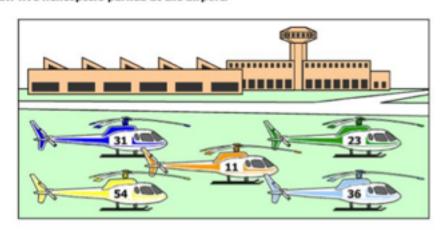
A set of basketball uniforms contains only odd-numbered jerseys. Which could be three of the jersey numbers from this set of uniforms?

- O A 11, 33, 44
- O B 15, 41, 55
- O C 21, 35, 52
- O D 34, 42, 50

Tristan saw five helicopters parked at the airport.



Which list shows all of the odd numbers on the helicopters?

- O A 36, 54
- O B 11, 31
- O C 11, 23, 31
- O D 11, 31, 36, 54

Which of the following digits could be found in the ones place of a number that is divisible by 2?

- O A 0
- OB 1
- OC3
- O D 5

## What is 7,459.82 rounded to the nearest whole number?

|

## 530 milliliters = \_\_ liter(s)

- O A 0.53
- O B 5.3
- C 53,000
- D 530,000

Which is closest to the measure of  $\Delta T$ ?



- A 27°
- B 33°
- C 153°
- O D 167°

## Marissa drew a figure with the following characteristics.

- Four congruent sides
- Two pairs of parallel sides
- · Two pairs of congruent opposite angles
- No right angles

## Which term best describes the figure Marissa drew?

- A Triangle
- O B Rhombus
- O C Rectangle
- O D Trapezoid

Mario began watching a movie at the time shown on the clock.



The movie was	2 hours and	25 minutes lon	g. What time	did the movie end?
---------------	-------------	----------------	--------------	--------------------

	Th	e mo	vie wa	s 2 hou	ırs and	25 n	ninutes	long.	What	time	did	the	movie	end
0	A	7:55	P.M.											
0	В	8:30	P.M.											
0	c	9:30	P.M.											
0	D	9:55	P.M.											
		To d	eterr	nine	the a	mai	unt of	nea	nute	a b	20	wil	l hole	

# To determine the amount of peanuts a bag will hold, Toby needs to find the —

- O A area
- O B length
- O C volume
- O D perimeter

Directions: Click and drag the three figure names to the boxes.

This is a flat figure. Destiny plans to cut this figure along the dashed line segments.



Identify the names of the three figures she will form.

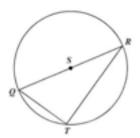


Figure Names

Triangle	Rhombus	Parallelogram	Square	Trapezoid

## SOL Calculators ok if you show all work.

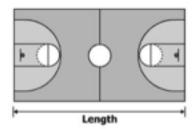
Point  ${\cal S}$  is the center of the circle shown.



Which line segment is a radius of the circle?

- O A QR
- B 3R
- c QT
- OD TR

The city is building a new outdoor basketball court.



Which is most likely the length of the new outdoor basketball court?

- O A 94 inches
- B 94 feet
- O C 94 centimeters
- D 94 kilometers

Which triangle appears to be a scalene triangle?







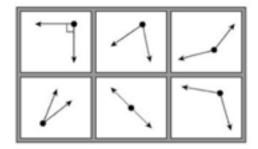


#### Perimeter is used to find the -

- A distance from a ceiling to the floor
- B amount of blacktop on a playground
- O C amount of floor space covered by a carpet
- O D distance around the edge of a swimming pool

Directions: Click on a box to choose each angle you want to select. You must select all correct angles.

Identify each angle that appears to be an acute angle.



What is the area of a right triangle with a base of 4 feet and a height of 8 feet?

- O A 12 square feet
- O B 16 square feet
- O C 24 square feet
- O D 32 square feet

The chart shows the different shirts, pants, and shoes Simon has in his closet.

**Outfit Choices** 

Color of Shirt	Color of Pants	Type of Shoes
Navy (N)	Khaki (K)	Boots (B)
Red (R)	Grey (G)	Sneakers (S)
White (W)		

Which lists all of the possible combinations Simon can create of one shirt, one pair of pants, and one pair of shoes?

W, K, S

W, N, B

W, N, S

OAN, R, W C N, K, B N, G, S R, K, B R, G, S W, K, B K, G B, S W, G, S B N, K, B D N, K, B N, K, S N, G, B N, K, S N, R, B N, G, B N, G, S R, K, B R, K, S R, G, B N, R, S R, K, B R, K, S R, W, B R, G, S R, W, S W, K, B W, K, B

W, K, S

W, G, B

W, G, S

This table shows the number of fish in each of 7 aquariums.

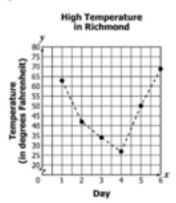
Fish in Aquariums

Aquarium	1	2	3	4	5	6	7
Number of Fish	19	30	24	30	39	25	22

Jeff emptied all the fish from these aquariums and put a fair share of these fish into each of these 7 aquariums. The number of fish he will put into each aquarium represents the —

- O A median
- B range
- C mean
- O D mode

This graph shows the high temperature in Richmond for each of 6 days.



Based on this graph, which statement is true?

- A The greatest increase in high temperature on the graph occurs between Day 4 and Day 5.
- B The greatest increase in high temperature on the graph occurs between Day 5 and Day 6.
- O C The greatest decrease in high temperature on the graph occurs between Day 2 and Day 3.
- D The greatest decrease in high temperature on the graph occurs between Day 3 and Day 4.

Brad has 2 bags with blocks that are all the same shape and size. There are 5 blocks in Bag A and 2 blocks in Bag B as shown.

Blocks in Bags

Bag A Bag B

Blue Purple
Green White
Crange
Red
Yellow

Brad will randomly select one block from each bag. Which list shows all of the possible combinations of one block from each bag? Blue, Purple Blue, White Green, White Orange, Purple Red, White Yellow, Purple Green, Purple Green, White Orange, Purple Red, White Yellow, Purple Blue, Purple Blue, White Green, Purple Green, White Orange, Purple Orange, White Red, White Wilow, Purple Blue, Purple Blue, Blue Green, White Green, Green Orange, Purple O B 0 D Orange, Orange Red, White Red, Red Yellow, Purple Yellow, Purple Yellow, White Yellow, Yellow

A set of data is shown.

What is the mode for this set of data?

A number machine uses a rule to change numbers. This table shows the results.

#### **Number Machine Results**

Input	Output
20	5
36	9
44	11
84	21

Which could be the rule the number machine uses to change the input numbers to the output numbers?

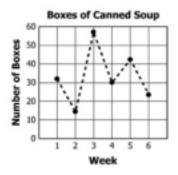
O A A00 13					4 5
		_	44.0	m	1.5
	~	•	F 100	nu.	4.4

B Subtract 15

O C Divide by 4

O D Multiply by 4

This graph shows the number of boxes of canned soup that were delivered to a grocery store each week for six weeks.



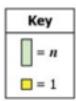
Based on this graph, which statement is true?

- A The number of boxes of soup delivered to the store in Week 6 is more than the number of boxes of soup delivered to the store in Week 4.
- B The number of boxes of soup delivered to the store in Week 3 is less than the number of boxes of soup delivered to the store in Week 5.
- C The number of boxes of soup delivered to the store in Week 1 is about the same as the number of boxes
  of soup delivered to the store in Week 4.
- D The number of boxes of soup delivered to the store in Week 2 is about the same as the number of boxes of soup delivered to the store in Week 5.

Ms. Chapman wrote this equation on the board.

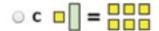
$$1 + n = 6$$

She drew a model of this equation using this key.

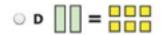


Which model best represents Ms. Chapman's equation?

○ A □ = ::::



ов 🛮 = 🔡



## Which rule can be used to find the next number in this increasing pattern?

3, 4, 6, 9, 13, 18, 24, \_\_

- A Add 7 to 24
- B Add 6 to 24
- O C Add 5 to 24
- D Add 3 to 24

Jordan needs to walk 6 more miles this week to reach his weekly goal of 21 miles. Which number sentence can be used to find n, the total number of miles that Jordan has walked so far this week?

- $\bigcirc$  A n = 6 + 21
- $\bigcirc$  **B** n+6=21
- $\bigcirc$  C  $n = 6 \times 21$
- $\bigcirc$  **D** n-6=21

## The table shows the number of points Ellie scored in each of five games.

#### Points Scored in Games

Game	Points Scored
1	10
2	5
3	12
4	8
5	15

### The range is 10 because it is the -

- A middle number of points she scored
- O B number of points she scored most often
- C fair share of the number of points she scored
- O D difference between the highest and lowest number of points she scored

This stem-and-leaf plot shows the number of pies sold at a bakery each day for 14 days.

**Number of Pies Sold** 

Stem			Le	af				
1	8	9	9	9				
2	4	4	5	5	5	5	5	6
3	0	0						

		Key	
1	0	means	10

Based on the information in the stem-and-leaf plot, which statement is correct?

- A The greatest number of pies sold on any day was 30.
- B The greatest number of pies sold on any day was 25.
- C The least number of pies sold on any day was 8.
- D The least number of pies sold on any day was 0.

This stem-and-leaf plot shows the number of pies sold at a bakery each day for 14 days.

**Number of Pies Sold** 

Stem	Leaf							
1	8	9	9	9				
2	4	4	5	5	5	5	5	6
3	0	0						

Г		Key	
1	0	means	10

Based on the information in the stem-and-leaf plot, which statement is correct?

- A The greatest number of pies sold on any day was 30.
- B The greatest number of pies sold on any day was 25.
- O C The least number of pies sold on any day was 8.
- D The least number of pies sold on any day was 0.

This sample space shows all the possible combinations of one type of main dish and one type of drink from which Roberto can choose.

Cereal, Milk

Cereal, Juice

Eggs, Milk

Eggs, Juice

Pancakes, Milk

Pancakes, Juice

According to the sample space, what is the probability Roberto will select eggs and juice?

- $\bigcirc A \frac{2}{4}$
- OB 2
- 0 c 1/5
- $\bigcirc$  D  $\frac{1}{6}$

Directions: Type your answer in the box.

### What is the 7th term in this decreasing pattern?

73, 64, 56, 49, 43, . . .

|

This set of data shows the number of pages that Caden read each night for 5 nights.

What is the range for this set of data?

- O A 20
- O B 18
- O C 17
- O D 15

## Which situation could be represented by the open sentence 15 - 5 = p?

- A Stuart is reading a book that has a total of 15 chapters. He reads 5 chapters every day. How many days will it take Stuart to finish this book?
- B Stuart is reading a book that has a total of 15 chapters. He has already read 5 chapters. How many chapters of the book are left for Stuart to read?
- C Stuart is reading a book that has a total of 15 chapters. This book has 5 chapters less than the book Stuart read last week. How many chapters were in the book Stuart read last week?
- D Stuart is reading a book that has a total of 15 chapters. This is 5 times the number of chapters as the book Stuart read last week. How many chapters were in the book Stuart read last week?

## Which equation shows the distributive property?

- $\bigcirc$  **A** 256×1 = 256
- $\bigcirc$  **B**  $5 \times 9 \times 4 = 4 \times 9 \times 5$
- $\bigcirc$  **C**  $(8 \times 6) + (8 \times 7) = 8(6 + 7)$
- $\bigcirc$  **D** (12+19)+13=12+(19+13)

# Sylvia has 18 pieces of red, cherry-flavored candy to share equally among friends. Which is a variable in this situation?

- A The number of friends who will receive candy
- O B The number of pieces of candy that Sylvia has
- C The flavor of each piece of candy
- O D The color of each piece of candy