249. The local swimming pool is open every day. Swimming classes are offered according to the following schedule.

Type of Lesson	Number of Times offered Per Day	Days Offered
Tiny Tots	2	Mon., Tues., Wed., Fri., Sat.
Beginner	3	Sun., Mon., Tues., Thurs., Fri., Sat.
Intermediate	2	Sun. Wed., Thurs., Sat.
Advanced	1	Sat. Sun.
Advanced	2	Tues., Thurs.

On which day of the week are the most lessons	s offered?
digits. Ann said: My favorite number is four m	Sect square. Charles said: My favorite number has two lore than a multiple of five. Bob said: My favorite, Charles, Ann, and Bob all have the same favorite
rows, with 7 desks in each row. Cindy wants to	The desks are arranged in a rectangle. There are 5 o sit in a desk so that someone is sitting directly in the How many different desks could Cindy sit in and
	desks
snow per hour. How many inches of snow fell Fact: 1 inch = 2.54 cm	inches
253. Mandy Jackson rented a car. She had 3 pl	ans to choose from.
Plan A \$42 per day Plan B \$29 per day and 10 cents per mile	
Plan C 37 cents per mile	
Mandy rented the car for 4 days and drove 440	miles. Luckily, Mandy had selected the plan that she pay for the car rental? Note: Sales tax is already  \$
	op in 8 minutes. Eleven minutes after she arrived at inutes to school. The bus arrived at school at 7:41
	a.m.

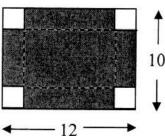
255. In the drawing below, EFG is a straight line. Which of the following is an obtuse angle?

261. Luke is $2\frac{1}{2}$ inches taller than Marty. Marty is $\frac{3}{4}$ inch taller than Kelli. How much taller than
Kelli is Luke? Write your answer as a mixed number in simplest form.
inches
262. In the 1968 Olympic Games, Bob Beamon set a world record in the long jump with a distance of 8.90 meters. This was 65 centimeters longer than the previous world record. What was the world record, in meters, immediately <u>prior</u> to Bob Beamon's record jump?
263. Kris recorded the total amount of time she watched television on Saturday morning. 50% of the time was spent watching a sports program. 40% of the time was spent watching cartoons. The remaining 12 minutes was spent watching the end of a movie. How many minutes did Kris spend watching cartoons on Saturday morning?
minutes
264. Sarah has forgotten her two-digit locker number. She remembers that  * the digits are two different perfect square numbers.  * it is an odd number.  * it is divisible by 13.  What is Sarah's locker number?
Trina totaled her expenses for last year and displayed the results in the circle graph shown below.
Other  28.8°  Rent 30%  Education 15%  Clothing 15%  S1,400
Use the information in the graph to answer questions 265-268 below.  265. What is the measure of the central angle for the sector labeled Education?
266. Trina's total expenses for last year were \$7,000. How much money did Trina spend on rent and clothing combined?
267. What percent of Trina's total expenses of \$7,000 was spent on food?

268. What fraction of the total expenses of \$7,000 was spent on movies? Write the fraction in simplest form.
An experiment consists of tossing a fair coin and then spinning the spinner shown below.
W B B R R R
The spinner is designed so that the arrow will always stop in one of the eight equal sectors shown. Use the above information to answer questions 269 - 271.
269. The letters B (blue), R (red), G (green) and W(white) are used to represent the associated colors. The list below shows some of the combined outcomes of the experiment, with H and T representing heads and tails respectively.  HB TB HR TR For example, HB represents head on the coin and blue on the spinner.
How many entries should be in the complete list of combined outcomes? entries
270. Find the probability that the coin will show tails (T) and the spinner will land in one or the other of the sectors labeled W. Write the answer as a fraction in simplest form.
271. The primary colors are blue, red, and yellow. Find the probability that the coin will show head: (H) and the arrow will not stop on a primary color. Write the answer as a fraction in simplest form.
272. The average reading test score of a class of 25 students was 16 out of 20 possible points. The 13 girls in the class scored a total of 182 points. How many total points did the boys score?
273. Gerry went on a trip. She left home at 9:25 a.m. and returned home 8 days, 19 hours, 47 minutes later. What time did Gerry arrive home? Be sure to include either a.m. or p.m. in your answer.
274. Natasha has 3 quarters, 6 dimes, 6 nickels, and 8 pennies in her piggy bank. What is the greatest number of these coins she could use to make \$1.56?

275. The shower in Tom's bathroom uses 4.5 gallons of water per minute. How many ounces per second is this? Do not round your answer.
Facts: 1 quart = 32 ounces 4 quarts = 1 gallon ounces per second
276. Bill and Don plan to meet at the park at 4:30 p.m. Bill thinks his watch has the correct time, but it is really 10 minutes fast. Don thinks his watch has the correct time, but it is really 5 minutes slow. Both arrive at the park when their respective watches say the time is 4:30 p.m. Which of the following statements is true?  A. Don arrives 15 minutes before Bill.  B. Bill arrives 15 minutes before Don.  C. Bill arrives 5 minutes before Don.  D. Don arrives 5 minutes before Bill.
Write the letter of the correct choice on the blank to the right.
277. The perimeter of a rectangle is 42.5 cm and the length of the rectangle is 14 cm. Find the area of this rectangle.
square cm
278. When the product of three different prime numbers is multiplied by 4, the result is 4004. What is the <u>sum</u> of these three prime numbers?
279. Abe, Bob, Cal, Don, and Ed each have a different favorite number. The favorite numbers are 11, 12, 13, 16, and 19. Abe's number is 3 more than Ed's number. Cal's number is one less than Don's. Don's number is prime. What is Bob's number?
280. How many trapezoids of all sizes are in the parallelogram-shaped diagram below?  Note: Every two adjacent triangles in the diagram form a parallelogram.
trapezoids
281. A taxi company charges \$2.20 for the first mile and \$0.45 for each additional mile or part of a mile. Juanita rode for 21.7 miles and gave a tip of \$3.00. How much did Juanita spend on this ride?  \$

282. Sharon had a rectangular piece of cardboard that measured 10 inches by 12 inches. She cut a square that measured 2 inches on a side from each corner of the cardboard. Next she folded up the sides to form an open box. What is the area of the bottom of the resulting box? Note: The dotted lines in the diagram are the fold lines.



12
square inches
283. What fraction has a value that is 75% larger than $\frac{3}{8}$ ?
284. The Ferris wheel was invented for Chicago's 1893 World's Fair. The original Ferris wheel had 36 cars, each of which could hold 60 people. On the very first ride, the wheel was filled to 55% capacity. How many people were on the very first Ferris wheel ride?
people
285. Every 24 hours, approximately 10 billion skin cells are shed off a human body. Based on this information, approximately how many skin cells will you shed during the 15 minutes you are allowed for this portion of the Math Masters exam?  A. 1 million  B. 10 million  C. 100 million  D. 1 billion
286. The cat kingdom is holding its annual jumping contest! Kit and Max jump a total distance of 6.32 meters. (Cats are very precise at measuring their jumps.) Max can jump 1.14 meters farther than Kit. How far can Kit jump? Do not round your answer.
meters
287. Jamal earned money mowing his neighbor's lawn. With this money, he bought two pens for \$0.49 each and one notebook for \$1.40, including tax. He spent half of what he had left on a milkshake, after which \$2.06 of his lawn-mowing money remained. How much money did Jamal earn mowing the lawn?
288. Find the sum of $\frac{1}{2}$ of $\frac{3}{4}$ and $\frac{1}{3}$ of $\frac{3}{4}$ . Write your answer as a fraction in simplest form.
289. Ramone has dimes and quarters in his pocket. He has fewer than 10 of these coins, and they have a value of \$1.65. How many quarters are in Ramone's pocket?
quarters

	's favorite two-digit nu of 9. Both digits are pri		• •	-		
		• • • •				• •
291. Deer	na ate $\frac{1}{6}$ of a large pize	za. Celeste	ate one-half of	what was re	emaining, the	n Samuel ate the
rest. Wha	t fraction of the whole	pizza did S	Samuel eat?			
	record running speed of avel in one minute? Ro	_				•
					feet	
teacher th	average algebra test so arew out the lowest sco s the lowest algebra sco	re, the ave			_	_
_	gular dartboard with an as shown below.	area of 96	square units is	divided into	five sections	(labeled A-D
	D		A		2	
		SE				
3	С			В	4	
1	8					
	ability of a dart randon the area of that section				as the fraction	n obtained by
	nformation to answer quality of a date form.			ction A. Wri	te the answer	as a fraction in
	the probability of a dation in simplest form.	· · · · · · · · · · · · · · · · · · ·	y landing in se	ction B or in	section C. W	rite the answer
	section labeled SE is k n the sheep's eye. Writ	nown as th		" Find the pr	obability of a	· · · a dart randomly

The table shows the final grades of 40 students in a geometry class.

Score	Frequency	Grade
Less than 60	4	F
60 to 69	6	D
70 to 79	10	С
80 to 89	12	В
More than 89	8	A

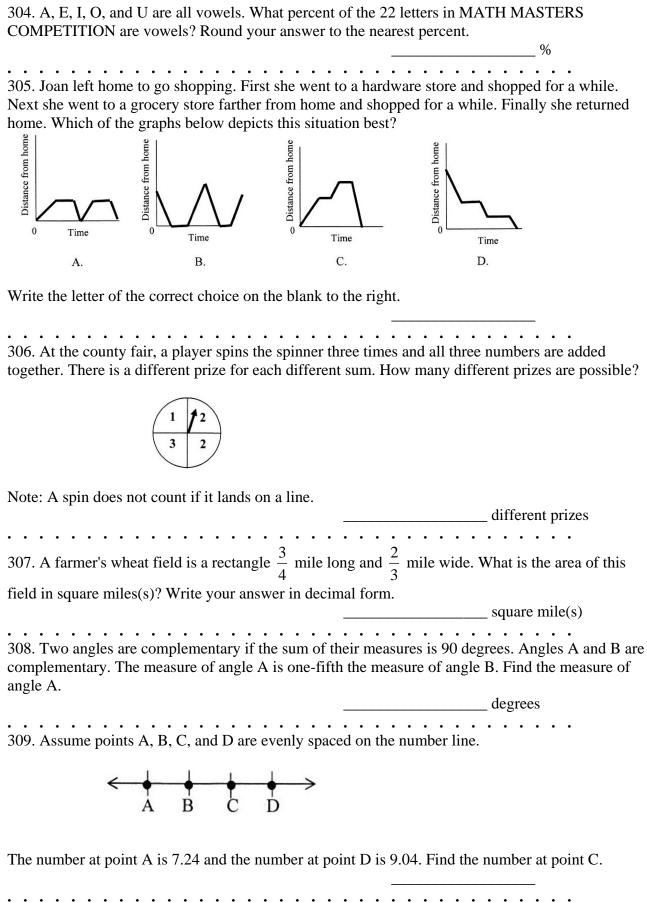
Use the above information to answer questions 297-299. 297. What percent of the students obtained a grade of C or be	ttori
297. What percent of the students obtained a grade of C of be	percent
298. A circle graph is drawn showing the information in the t central angle for the sector representing a grade of F?	
	degrees
299. A bar graph is drawn showing the information in the tab grade of B is 36 units, what should be the area of the bar representation.	<u> </u>
The list below shows 10 counting numbers arranged from sm numbers are missing from the list and are represented by the	letters X, Y and Z.
<u>X</u> , 15, 16, 18, <u>Y</u> , 19, 20, 20, Use the above information to answer questions 300-302. 300. The median of the 10 numbers is 18.5. Find the value of	_
_	
301. The mode of the 10 numbers is 20. Find the mean of the	four largest numbers.
302. The mean of the ten numbers is 18.2. Find the sum $\mathbf{X}$ +	Y + Z.

303. The magic square below is missing some if its entries. Each row, column, and diagonal of the

magic square must have the same sum. What number goes in the square marked with an X?

4.96	0.62	3.72
1.86		
		X

\_\_\_\_\_\_



310. Amanda wore a pedometer and recorded the number of steps she walked for 5 days. The results for the first 4 days are in the chart below.

Day	<b>Number of Steps</b>
Monday	9,205
Tuesday	7,980
Wednesday	4,237
Thursday	6,986
Friday	????

If A	ma	ınd	a a	vera	age	d 7	7,50	90 9	step	s p	er	day	y f	or	$th\epsilon$	e 5	da	iys	, W	/ha	ιt s	vas	; A	١m	ano	da'	s a	ive	rag	e p	er c	lay	for
Thu	ırsd	lay	and	l Fı	rida	ay?	•																										
																											st	eps	8				