acute angle	an angle measuring less than 90 degrees
addends	numbers to be added together in an addition problem
angle	the measured space between two lines that meet at one point
area	the number of square units needed to cover a surface
arithmetic	having to do with addition or subtraction of terms
average	a number obtained by adding a group of numbers together and
	dividing by the number of addends; it is the same as the mean
circle	a closed, curved line. Each point on the circle is the same
	distance from the center of the circle
<u>circumference</u>	the distance around a circle
congruent	being the same
<u>diameter</u>	a line segment across a circle that contains 2 points
	on the circle and passes through the center point
difference	the answer to a subtraction problem
→ <u>divisor</u>	a number by which another number is to be divided
→ <u>dividend</u>	the number being divided by the divisor
→ <u>quotient</u>	the answer to a division problem
<u>geometric</u>	having to do with a multiplication or division of terms
integer	a whole number either positive, negative or zero
interest	a fee paid for the privilege of borrowing money
least common denor	ninator [LCD]
the lowest of	common multiple of two or more denominators
least common multi	ple [LCM]
the lowest 1	number (not a zero) that is a multiple of two given numbers
mean	a number obtained by adding a group of numbers together and
	dividing by the number of addends; it is the same as
	the average
median	the middle number in a set of numbers arranged in order;
	when there isn't a middle number, the median is the average
	of the two middle numbers
obtuse angle	an angle measuring more than 90 degrees
of	a way of expressing multiplication
<u>parallel lines</u>	two lines, the same distance apart that never intersect

Example:

parallelogram Example:

a quadrilateral with two pair of parallel sides Or

percent a way to compare a number to 100

Example: \$25 is 25% (percent) of \$100 because:

$$\rightarrow Percent = \underline{part} = \underline{part} = \underline{25} = 25\%$$

Note: Percent and Probability are one in the same

<u>perimeter</u> the distance around a figure; the sum of all of its sides <u>perpendicular lines</u>

two lines that intersect (cross) and form right angles (90° angles)



polygon	a figure bounded by three or more sides			
profit	money received from a business venture	e after all expenses		
	have been paid			
<u>prime number</u>	a number that can only be divided evenl	y by itself and 1		
<u>probability</u>	the likeliness that something will happe	n;		
	mathematically, Probability =	part = part		
		whole total		
<u>quadrilateral</u>	a polygon with four sides			
<u>right angle</u>	an angle measuring 90 degrees			
<u>right triangle</u>	a triangle that has one right angle			
sale price	a price that is lower than the original price	ce for an item		
sales tax	an amount of money added to the price of an item that is paid			
	to the government			
sequence	a series of numbers coming one after an	other in a certain order		
square	a figure with 4 right angles and 4 equal	sides		
square root $$; a number that when multiplied by	itself will produce a		
	certa <u>in n</u> umber			
Example:	\checkmark 169 = the square root of 169 = 13;			
<u>trapezoid</u>	a quadrilateral with a pair of parallel sid	es		
<u>triangle</u>	a polygon with three sides			
volume	the amount of space occupied by an object	ect, expressed in cubic		
	units where the formula is: length x wi	dth x height		
L = length	b = base	r = radius of a circle		
W = width	h = height of triangle or trapezoid	D = diameter of a circle		
A = area	$b_1 = parallel base (of trapezoid)$	C = circumference of a circle		
P = perimeter	$b_2 = parallel base (of trapezoid)$			

Temperature - Celsius	3		Capacity		
0°C	the freezing point of water 1000 milliliters (ml) = 1 liter (L)			r(L)	
37°C	the normal	body temperature	1000 liters = 1 k	iloliter (kL)	
100°C	the boiling	point of water			
Mass			Length		
1000 milligrams (mg)	= 1 gram		10 millimeters (m	m) = 1 centi	meter
1000 grams = 1 kilog	ram (kg)		10 centimeters (cm) = 1 decimeter		
1000 kilograms = 1 m	netric ton (t)		1000 millimeters (mm) = 1 meter (m)		
			100 centimeters =	1 meter (m))
			10 decimeters (dm	n) = 1 meter	
			1000 meters (m) = 1 kilometer (km)		
Temperature - Fahren	<u>heit</u>		Capacity		
32°F	the freezing	g point of water	1 cup (c)	=	8 fluid ounces (fl oz)
98.6°F	the normal	body temperature			
212°F	the boiling	point of water	1 pint (pt)	=	16 fluid ounces
XX7 * 1 /				=	2 cups
<u>Weight</u> 1 pound (LB) = 16 ou	nces (oz)		1 quart (at)	=	32 fluid ounces
1 ton = 2.000 pounds			1 Juni (4)	=	4 cups
				=	2 pints
Time					1
1 minute (min) = 60 s	econds (s)		1 gallon(gal)	=	128 fluid ounces
1 hour = 60 minutes				=	16 cups
1 day = 24 hours				=	8 pints
1 week = 7 days				=	4 quarts
1 month (mo) = appro	oximately 4 we	eks			
1 year (yr.)	=	365 days	Length		
		52 weeks	1 foot (ft)	=	12 inches (in)
		12 months			
1 decade = 10 years			1 yard (yd)	=	36 inches
1 century = 100 years				=	3 feet
			1 mile (mi)	=	5,280 feet
1 inch (in)	=	2.54			
1 foot (ft)	=	30.48			
1 meter (m)	=	39.37			
1 quart (qt)	=	1.07			
32°F	=	0°C			
98.6°F	=	37°C			
212°F	=	100°C			
-40°F	=	-40°C			
1 mile (mi)	=	1.609			

A prime is a positive integer greater than 1 that is divisible by no integers other than 1 and itself. The integers 2, 3, 5, 13, 101, and 163 are primes.

A positive integer which is not prime, and which is not equal to 1, is called **composite**. The integers 4(2x2), 8(4x2), 33(3x11), 111(3x37) and 1001(7x11x13) are all composite. The primes are the building blocks of the integers. Every positive integer can be rewritten uniquely as the product of primes.

In fact, all even numbers except 2 are composite. Therefore, all even numbers greater than 2 are composite. The number 1 is neither prime nor composite; it is a divisor. Additionally, some odd numbers are composite, such as: 9, 15, 21, 25, 27, 33, 35, etc..





6

FRACTIONS & DECIMALS

1/2	0.500	1/9	0.111
1/3	0.333	2/9	0.222
2/3	0.667	3/9	0.333
1/4	0.250	4/9	0.444
3/4	0.750	5/9	0.556
1/5	0.200	6/9	0.667
2/5	0.400	7/9	0.778
3/5	0.600	8/9	0.889
4/5	0.800	1/10	0.100
1/6	0.167	2/10	0.200
5/6	0.833	3/10	0.300
1/7	0.143	4/10	0.400
2/7	0.286	5/10	0.500
3/7	0.429	6/10	0.600
4/7	0.571	7/10	0.700
5/7	0.714	8/10	0.800
6/7	0.857	9/10	0.900
1/8	0.125	1/12	0.083
3/8	0.375	5/12	0.417
5/8	0.625	7/12	0.583
7/8	0.875	11/12	0.917

Divisibility

2	the integer must be an even integer Example: 2; 4; 6; 8; and 120
3	the sum of the digits must add up to a multiple of 3
	Example: 3; 123 (adds up to 6); and 815,271 (adds up to 24 which adds up to 6)
4	the integer must be an even integer and can be divided by 2 twice
	Also, the integer's last two digits are a factor of 4
	Example: 78 is even and is not divisible by 4
	while 176 is even and is divisible by 2 twice, that is $176 = 44 \times 2 \times 2 = 44 \times 4$;
	therefore it is divisible by 4; Also, 76, which is the last two digits, is divisible by 4
5	the integer ends in 5 or 0; Example: 25, 625, 690, 7895
6	the integer must be an even integer and divisible by 3, that is,
	it is divisible by 2 and divisible by 3: $(\div 2)$ and $(\div 3) = (\div 6)$ Or $(\div 2) \times (\div 3) = \div 6$
	Example: 33,120 is even and is divisible by 3 so therefore it is divisible by 6
	however 33,111 is divisible by 3 and is not even, so therefore it is not divisible by 6
8	the integer must be an even integer and can be divided by 2 three times,
	hence $2^3 = 8$; that is, $2 \times 2 \times 2 = 8$
9	the sum of the digits must add up to a multiple of 9;
10	the integer must end in zero; Example: 20, 560, 59680
11	the sum of the alternating digits must cancel out