Secondary Level Assessment (SLA) Mathematics

- *Form 505 and Form 506*

DIRECTIONS: Use the table below to answer questions throughout the test.

FORMULAS AND EQUIVALENCES

AREA (A) of a:

square	$A = s2$;	where s = side
rectangle	$A = 1w$;	where 1 = length, w = width
parallelogram	$A = bh$;	where b = base, h = height
triangle	$A = 1/2\ bh$;	where b = base, h = height
circle	$A = \pi r2$;	where π = 3.14, r = radius

PERIMETER (P) of a:

square	$P = 4s$;	where s = side
rectangle	$P = 21 + 2w$;	where l = length, w = width
triangle	$P = a+b+c$;	where a, b, and c are the sides
circumference (C) of a circle	$C = \pi d$;	where π =3.14, d = diameter

VOLUME (V) of a:

cube	$V = s3$;	where s = side
rectangular container	$V = lwh$;	where 1 = length, w = width, h = height
cylinder	$V = \pi r2\ h$;	where π =3.14, r = radius, h = height

PYTHAGOREAN THEOREM

$c2 = a2+b2$;   where c = hypotenuse,
a and b are legs of a right triangle

SIMPLE INTEREST

$i = prt$;   where p = principal, r = rate, t = time

1 gallon = 4 quarts = 8 pints = 16 cups	1 cup = 8 fluid ounces
1 yard = 3 feet = 36 inches	1 fluid ounce = 2 tablespoons
1 mile = 5280 feet	1 pound = 16 ounces
1 ton = 2000 pounds	
1 meter = 100 centimeters	1 centimeter = 10 millimeters
1 gram = 1000 milligrams	1 kilogram = 1000 grams
1 kilometer = 1000 meters	
1 meter = 1.09 yard	1 inch = 2.54 centimeters
1 kilometer = .62 miles	1 kilogram = 2.2 pounds
1 liter = 1.06 quarts	