

Medical Math



Date	Friday, February 16, 2024	Orientation Time	8:00am		
Date			Closed to instructors		
	WCSCC		Immediately following		
Location	518 W. Prospect St.	Contest Time	orientation		
	Smithville, OH 44677		(Contest closed to instructors)		
Scope of		te their ability to solve ma	th problems that deal with the		
Contest	following areas:				
	 Measurements including vital signs, temperature conversions, and height and 				
	weight				
	Metric and household measurements				
	Conversions				
	Ratio and Proportion				
	Percentage				
	Intake and Output				
	Roman numerals				
	Dosage calculations				
	• The test will contain 50 problems that will evaluate competitors' problem-				
	solving skills, as well as, their mathematical ability.				
	 The competitors will have two hours (120 minutes) to complete the test. No bonus points are given for early completion of the test, and no competitor will 				
	be allowed to enter or leave testing site during testing. If finished before time limit, contestant may raise hand to be excused. Test and scratch paper will be				
	collected.				
	 All items listed in the appendix attached to this page are suggested references. 				
	This is just a basic reference of information that may be required for the				
	competition. They are to be used as a reference <i>prior to competition</i> , and are				
	NOT allowed in the competition area.				
Testing	Yes	•			
Eligibility	1 contestant for every 500 paid members				
Clothing	School Uniform: Professional attire worn in the classroom such as a criminal justice				
	uniform, chef attire, health scrubs, or cosmetology scrubs with all identifiers covered.				
	This includes shoes.				
		OR			
	Business Causal: Polo or other collared shirt and khakis or dress pants. NO JEANS.				
	School logos, contestant name, or other identifier on shirt must be covered.				
Provided by	Professional Resumé – Typed Hardcopy				
Contestant	Emergency Medical Forms (Contestants must have this to compete)				
	 Two #2 pencils (sharpened) or mechanical pencils and erasers 				
	Basic hand-held calculator (no fraction key or graphing calculators permitted)				
	Contestants may not use a cell phone as a calculator!				
	No smart watches, earbug	ds, and/or cell phones			

Appendix	Torm millimeter	Abbreviation	Conversion Cha
	centimeter	cm	Length
	meter	m	
	foot/feet	ft	1 meter = 100 c
	inch	in	10 millimeters =
	gram	G	W • 1.
	milligram	mg	Weight
	microgram	mcg	1 gram = 1,000
	kilogram	kg	1 milligram = 1
	pound	lb	1 kilogram = 1,
	ounce	oz	1 grain = 60 millig
	degrees Fahrenheit	°F	Volume for Solids
	degrees Celsius (Centigrade)	°C	1,000 cubic mil
	cubic centimeter	cc	1,000 cubic cen
	milliliter	ml or mL	1,000 cubic dec
	liter	L	
	unit	U	Volume for Fluids
	pint	pt	1 liter = 1,000 r
	quart	qt	1 milliliter = 1 of 1
	gallon	gal	10 centiliters =
	tablespoon	tbsp	10 deciliters $= 1$
	teaspoon	tsp	
	drop or drops	gtt or gtts	Weight Conversion
	minim	minim	1 kilogram = 2.
	dram	dr	1 pound = 16 o
	milliequivalent	mEq	1 ounce = 0.028
	grain	gr	i ounce orong
	intravenous	IV	Temperature Conve
	tablet	tab	
	capsule	cap	$^{\circ}C = (^{\circ}F-32) 5/9$
	suspension	susp	$^{\circ}F = (^{\circ}C) 9/5 \text{ or}$
	intake and output	1&0	Metric/Household (Note: 1 cc = 1 mL)
			1 cc or 1 mL
			5 mL or cc
			15 mL or cc
			30 mL or cc
			240 mL or cc
			500 mL or cc
			1,000 mL or cc
			1 meter
			0.914 meters

art

centimeters = 1,000 millimeters = 1 centimeter

0 milligrams 1,000 micrograms 1,000 grams

illimeters = 1 cubic centimeter ntimeters = 1 cubic decimeter ecimeters = 1 cubic meter

milliliters cubic centimeter 1 deciliter 1 liter

n

2.2 pounds ounces 28 kilograms

rsion

9 or 0.5556 or 1.8 + 32

l Equivalents L)

15 gtts (drops)		
1 tsp (teaspoon)		
1 tbsp (tablespoon)		
1 oz. (ounce)		
1 cup (8 oz.)		
1 pt (pint - 16 ounces)		
1 qt (quart) (32 ounces)		
39.37 inches (3.281 feet)		
3 feet (1 yard)		
12 inches (1 foot)		
1 inch		