

Medical Math



Date	February 7, 2025	Orientation Time	8:00 AM Closed to instructors			
Location	Butler Tech 3603 Hamilton Middletown Rd Hamilton, OH 45011	Contest Time	Immediately following orientation (Contest closed to instructors)			
Scope of Contest	 Measurements including Metric and household m Conversions Ratio and Proportion Percentage Intake and Output Roman numerals Dosage calculations The test will contain 50 p skills, as well as, their ma The competitors will hav points are given for early enter or leave testing site All items listed in the app is just a basic reference of they are to be used as a competition area. 	 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. 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 prior to competition, and are NOT allowed in the 				
Testing	/es					
Eligibility	3 competitors per building IRN (Chapter)					
Clothing	Clothing Classification Guide – CLASS A, B or F					
Provided by Contestant	 Professional Resume – must be typed and physically produced as a hard copy Medical Form (behind ID badge) May not compete without medical form. Two #2 pencils (sharpened) or mechanical pencils and erasers Basic hand-held calculator (no fraction key or graphing calculators permitted) No smart watches, earbuds, and/or cell phones. Contestants may not use a cell phone as a calculator! 					
Contest Skilled Performance Standards	The test questions will be taken f selected from real world applicat	•	he medical field and are			

Appendix	Torm	Abbreviation	Conversion Chart	Conversion Chart	
	millimeter	mm			
	centimeter	cm	Length		
	meter	m	1 meter = 100 centimeters = 1,000 millimeters 10 millimeters = 1 centimeter		
	foot/feet	ft			
	inch	in			
	gram	G	Weight		
	milligram	mg	1 gram = 1,000 milligrams		
	microgram	mcg	1 milligram = 1,000 micrograms 1 kilogram = 1,000 grams 1 grain = 60 milligrams		
	kilogram	kg			
	pound	lb			
	ounce	oz	Volume for Solids		
	degrees Fahrenheit	°F	1,000 cubic millimeters = 1 cubic centimeter 1,000 cubic centimeters = 1 cubic decimeter		
	degrees Celsius (Centigrade)	°C			
	cubic centimeter	cc			
	milliliter	ml or mL	1,000 cubic decimeters = 1 cubic meter		
	liter	L			
	unit	U	Volume for Fluids		
	pint	pt	1 liter = 1,000 milliliters 1 milliliter = 1 cubic centimeter 10 centiliters = 1 deciliter 10 deciliters = 1 liter		
	quart	qt			
	gallon	gal			
	tablespoon	thsp			
	teaspoon	tsp	575342 5535 - 3		
	drop or drops	gtt or gtts	Weight Conversion		
	minim	minim	1 kilogram = 2.2 pounds 1 pound = 16 ounces 1 ounce = 0.028 kilograms		
	dram	dr			
	milliequivalent	mEq			
	grain	gr			
	intravenous	IV	Temperature Conversion °C = (°F-32) 5/9 or 0.5556 °F = (°C) 9/5 or 1.8 + 32		
	tablet	tab			
	capsule	cap			
	suspension	susp	$F = ({}^{\circ}C) 9/5 \text{ or } 1$.8 + 32	
	intake and output	1&0	/		
	All the second control of the second		Metric/Household Equ	Jivalents	
			(Note: 1 cc = 1 mL)		
			1 cc or 1 mL	15 gtts (drops)	
			5 mL or cc	1 tsp (teaspoon)	
			15 mL or cc	1 tbsp (tablespoon)	
			30 mL or cc	1 oz. (ounce)	
			240 mL or cc	1 cup (8 oz.)	
			500 mL or cc	1 pt (pint - 16 ounces)	
			1,000 mL or cc	1 qt (quart) (32 ounces)	
			1 meter	39.37 inches (3.281 feet)	
			0.914 meters	3 feet (1 yard)	
			0.3048 meters	12 inches (1 foot)	
			2.54 centimeters	1 inch	