

Alaska Community Health Aide Program
CHA/P Medical Math Checklist

CHAP Name: _____ Village: _____

Instructions: Begin this checklist using the results from the CHAP Medical Math Assessment that is to be completed prior to Basic Training. Date and initial the appropriate boxes as each skill is completed.

	Competency Demonstrated on Paper	Competency Demonstrated Hands on	Needs Work	Field Remediation Started	Taught in Class
1. A clock's face					
a. Read and record time					
2. Pulse and respirations					
a. Understands how to calculate per minute					
b. Multiply 15 second pulse/FHT by 4					
c. Multiply 30 second resp. by 2					
d. Calculate increase in pulse					
3. Blood Pressure					
a. Read BP dial					
b. Calculate increase in systolic and diastolic BP					
c. Calculate decrease in systolic BP					
4. Read oxygen tank gauges					
a. Flow meter in lpm					
b. Pressure gauge in psi					
5. Understand basic fractions					
a. 1/2					
b. 1/4					
c. 1/5					
d. 1/8					
e. 1/10					
f. Fraction equivalents (1/2=2/4=4/8, etc)					
6. Understand basic decimals					
a. Tenths					
b. Hundreths (.10, .24, .50, .75)					
c. Fraction decimal equivalents					
d. Transcribe verbal decimal orders					
e. Vitamin dropper doses					
f. Ferrous sulfate dropper doses					
g. Tylenol dropper doses					
h. Digoxin doses (.5, .25, .125)					
7. Understand the English measurements system					
a. Length (inch, foot)					
b. Weight (oz., lb.)					
c. Volume (tsp, tblspn, fluid oz., cup, pint, qt., gal)					
8. Understand the metric system					
a. Length (cm, mm)					
b. Weight (mg, Gm, kg)					
c. Volume (liter, ml, cc)					
d. English/metric conversions (length, wt, volume)					
9. Read a ruler/tape measure					
a. Fractions of an inch (1/2, 1/4, 1/8)					
b. cm, mm					
c. Relationship of inches to feet (fractions)					
10. Read thermometers					
a. Manual thermometer					
b. Glass hypothermia thermometer					
11. Patients' weight					
a. Relationship of ounces to pounds (fractions)					
b. Read a baby scale					
c. Read an adult scale					
d. Calculate wt. gain in lbs					
e. Calculate wt. loss in lbs/oz					
f. Determine BMI using table or wheel					

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	Competency Demonstrated on Paper	Competency Demonstrated Hands on	Needs Work	Field Remediation Started	Taught in Class
12. Measure volume with syringes					
a. 1 cc TB syringes					
b. 3 cc syringe					
c. 5 cc syringe					
d. 1 ml Tubex					
e. Oral tsp/ml syringe					
f. 50 unit insulin syringe					
g. 100 unit insulin syringe					
h. Bicillin syringe					
13. Medication dose calculation					
a. Explain concentrations in mg/ml					
b. Calculate liquid volumes for doses in milligrams					
c. Calculate # of pills per dose					
d. Calculate total # of pills to give to pt					
e. Read a med dose chart					
14. Patients' age					
a. Calculate age in years from dates (> 3 y.o.)					
b. Calculate age in years/months from dates (< 3 y.o.)					
c. Calculate age in months from dates (< 3 y.o.)					
d. Calculate age in years/months to months (< 3 y.o.)					
e. Calculate age on developmental screening chart					
15. Immunization Schedule (Session III)					
a. Determine which vaccines are due					
16. Growth charts (Session III)					
a. Fractional relationship of weeks to months					
b. Fractional relationship of ounces to pounds					
c. Read the graph markings					
d. Explain the percentile lines					
e. Plot the curves					
f. Interpret the curves					
17. Prenatal Skills (Session III)					
a. Calculate whether wt. gain is WNL					
b. Calculate whether FH rate is WNL					
c. Determine EDC from LMP with pregnancy wheel					
d. Determine gestational age from LMP with a pregnancy wheel					
e. Determine gestational age from ultrasound EDD with a pregnancy wheel					

- This checklist should accompany the CHA/P to his/her village clinic as well as to any training starting with Pre-session I.
- If steps are repeated, a box can be dated and initialed more than once.
- Comments regarding specific tests and remedial efforts can be attached on additional pages.

Name/ Title	Initials	Tribal Health Organization	Name/ Title	Initials	Tribal Health Organization