


Nursing Hesi A2: A Quickstudy Laminated Reference & Study Guide by April Michelle Davis

WORLD'S #1 ACADEMIC OUTLINE

QuickStudy MEDICAL **NURSING HESI A² Test** 

HEALTH EDUCATION SYSTEMS, INC.

MATHEMATICS

Order of Operations

- Most be performed in the following order: Parentheses, Exponents, Multiplication, Division, Addition, Subtraction
- EX: $4 \times (3 + 2) + 5 \times 3 - 8 + (7) + 5 \times 3 - 6 + 25 + 3 = 100 + 15 = 115$

Roman Numerals

Roman Numeral	Value
I	1
V	5
X	10
L	50
C	100
D	500
M	1,000

- Always arranged from greatest to least in value and combined to form numbers
- EX: DCLXVI = 500 + 100 + 50 + 10 + 5 + 1 = 666
- To avoid adding four of the same numeral in a row, subtraction is used. If a numeral with a smaller value is placed before a numeral with a larger value, the smaller number should be subtracted from the larger number
- EX: CDLXIX = 500 - 100 + 50 + 10 + 5 + 1 = 459

Converting Military Time to Civilian Time

- If the number is less than twelve hundred, the time is a.m.
- EX: 1115 = 11:15 a.m.
- If the number is twelve hundred or greater, the time is p.m.
- EX: 1258 = 12:58 p.m.
- If the number is thirteen hundred or greater, subtract 1200
- EX: 1422 = 2:22 p.m.

The Metric System

Metric Prefix Equivalents

Prefix	Equivalent
mega-	1,000,000
kilo-	1,000
hecto-	100
deca-/deka-	10
deci-	1/10 (0.1)
centi-	1/100 (0.01)
milli-	1/1,000 (0.001)
micro-	1/1,000,000 (0.000001)

ENGLISH TO METRIC CONVERSIONS & VICE VERSA

- Centimeters to inches: Multiply by 0.394
- Inches to centimeters: Multiply by 2.54
- Kilograms to pounds: Multiply by 2.205
- Pounds to kilograms: Multiply by 0.454
- Celsius to Fahrenheit: $(^{\circ}\text{C}) \times 1.8 + 32 = ^{\circ}\text{F}$
- Fahrenheit to Celsius: $(^{\circ}\text{F}) - 32 \div 1.8 = ^{\circ}\text{C}$

Abbreviations

Prefix Abbreviations & Prefixes

Prefix	Abbreviation
at	at
k	kilo
h	hecto

Length Abbreviations

Abbreviation	Unit
cm	centimeter
dm	decimeter
dam	decameter/dekade
m	meter
in	inch
ft	foot

Weight Abbreviations

Abbreviation	Unit
lb	pound
oz	ounce
mg	milligram
g	gram
kg	kilogram
mcg	microgram
g	gram

Fluid Abbreviations

Abbreviation	Unit
cc	cubic centimeter
dL	deciliter
fl oz	fluid ounce
qt	quart
gal	gallon
pt	pint
cup	cup
spoon	spoon
teaspoon	teaspoon
tablespoon	tablespoon

Multiplying Fractions

- Multiply the numerators, then multiply the denominators
- EX: $\frac{2}{3} \times \frac{12}{12} = \frac{24}{36}$
- Reduce both the numerator and denominator and divide by 4, divide both by 4: $\frac{24}{36} = \frac{2}{3}$

Dividing Fractions

- Write all numbers (including any whole numbers or mixed numbers) in fraction form
- EX: $\frac{3}{4} \div \frac{1}{2}$
- In this case, both numbers are already in fraction form
- Write the reciprocal of the second fraction (found by inverting (flipping) the fraction so the numerator is on the bottom and the denominator is on the top). Then change the division sign to a multiplication sign
- EX: $\frac{3}{4} \times \frac{2}{1}$
- Multiply the numerators, then multiply the denominators

Converting Fractions to Decimals

- To convert a fraction to a decimal, divide the numerator by the denominator
- EX: $\frac{3}{4} = 3 \div 4 = .75$
- EX: $\frac{1}{2} = 1 \div 2 = .5$

Converting Decimals to Fractions

- To convert a decimal to a fraction, write the decimal divided by one, multiply the numerator and the denominator by 10 for every number after the decimal point, and then reduce the fraction
- EX: $.25 = \frac{25}{100} = \frac{1}{4}$

Proportions & Ratios

- A ratio is a comparison between the quantity of one item and the quantity of another item. If the ratio of study to games is 7:3, for every 7 study there are 3 games
- In fractions how many of an item there is, divide the total number of items by the sum of the numbers in the ratio, and then multiply each number in the ratio by the answer
- EX: The ratio of the number of days it rained in September to the number of days it did not rain is 4:1. How many days did it rain in September?
- Answer: Days in September: 30
- Add numbers in the ratio: $4 + 1 = 5$
- Divide 30 by the sum: $30 \div 5 = 6$
- Multiply the answer by 4, the number in the ratio corresponding to the number of days it rained to get the number of days it rained in September: $4 \times 6 = 24$
- To compare and order decimals, fractions, and percents, convert all numbers to decimals
- EX: Write in increasing order: 0.208, 21%, $\frac{1}{5}$
- Answer: 0.2, 0.208, 0.21 = $\frac{1}{5}$, 0.208, 21%

Word Problems

ADDITION

EX: Jan went to the mall 2 out of 7 days last week. How many days did Jan go to the mall in the last 2 weeks?

Answer: $2 \times 2 = 4$ days

SUBTRACTION

EX: Pete found 27 pennies. He spent 13 of them. How many pennies are left?

Answer: $27 - 13 = 14$ pennies

MULTIPLICATION

EX: Mark has 14 dollars. How many pennies does this equal?

Answer: $14 \times 10 = 140$ cents

DIVISION

EX: After drive 200 miles in 5 hours. What was John's average speed?

Answer: $200 \div 5 = 40$ miles/hour

READING COMPREHENSION

Question Types

- About the author: The author's attitude, thoughts, and opinions. Pay attention to context clues, as the answer may not be explicitly stated
- Passage facts: Student distinguishes between fact and opinion and may also need to identify specific information from the passage
- Additional information: Information that can be added to or is missing from the passage

Strategies

- Read the main or division before reading the passage to know what to look for
- Eliminate obviously incorrect answer choices to increase the chance of selecting the correct answer



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