

Name _____ Student ID _____ Date _____

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For students interested in ADN:

This is an indication of the kind of math you need to know for nursing dose calculations. If these are difficult for you to figure out, please consider registering for Math for Health Professionals.

1. John Williams weighs 250 lbs. How many kilograms is this?
 - a. 5.5 kg
 - b. 550 kg
 - c. 300.5 kg
 - d. 113.6 kg
2. 3000 mcg is how many milligrams?
 - a. 3mg
 - b. 30 mg
 - c. 300mg
 - d. 0.3 mg
3. One quart is how many fluid ounces?
 - a. 28
 - b. 30
 - c. 32
 - d. 34
4. Change the Arabic numeral "4" to a Roman numeral.
 - a. iii
 - b. iv
 - c. vi
 - d. iiss

5. Change the following Roman numeral to an Arabic numeral: "viiss".
- $3 \frac{1}{2}$
 - $4 \frac{1}{2}$
 - $7 \frac{1}{2}$
 - $5 \frac{1}{2}$
6. Forty (40) mg of a liquid medication is ordered. The dose on hand is 30mg/2 ml. How many ml would you give? Round to the nearest tenth.
- 1.6 ml
 - 1.8 ml
 - 2.2 ml
 - 2.7 ml
7. Kathy is making cookies. She adds $\frac{1}{4}$ tsp cinnamon, $\frac{1}{8}$ tsp cloves, 1 tsp vanilla, and $\frac{1}{2}$ tsp nutmeg. How much total spice did she add?
- $1 \frac{1}{4}$ tsp
 - $1 \frac{1}{2}$ tsp
 - $1 \frac{7}{8}$ tsp
 - $1 \frac{2}{8}$ tsp
8. Cefazolin is to be given in a dose of 30 mg/kg/day. A child weighs 22 lbs. What would be the amount that he needs per day?
- 10 mg
 - 30 mg
 - 100 mg
 - 300 mg
9. Harriet is taking NPH insulin. Her nurse practitioner tells her to take $\frac{2}{3}$ of her total dose in the morning and $\frac{1}{3}$ of her dose in the evening. Her total dose is 45 units. What would the am/pm dose in units be?
- 30 units in am/15 units in pm
 - 28 units in am/17 units in pm
 - 27 units in am/18 units in pm
 - 25 units in am/20 units in pm

10. You want to mow your lawn, but your lawn mower is out of gas. If your lawn mower needs 32:1 gas/oil mixture, how many ounces of oil do you need to add to a gallon of gas?
- 2 oz
 - 4 oz
 - 6 oz
 - 8 oz
11. 3.5 Liters equals how many quarts? Round to the nearest tenth.
- 0.5 quarts
 - 0.75 quarts
 - 3.7 quarts
 - 5.5 quarts
12. You are looking at a piece of EKG paper. Each small block is $\frac{1}{25}$ th of a second. How many seconds would 5 small blocks equal?
- 0.5 sec
 - 0.4 sec
 - 0.3 sec
 - 0.2 sec
13. You are measuring a patient for a pair of TED hose. His calf measurement is 37.5 cm. When you look at the package of TEDs you see that the measurements are in inches. Which would be the corresponding calf measurement in inches?
- 12 inches
 - 13 inches
 - 14 inches
 - 15 inches
14. Arrange the following fractions from smallest to largest:
- $\frac{1}{8}$
 - $\frac{1}{16}$
 - $\frac{1}{2}$
 - $\frac{1}{4}$

15. Arrange the following decimals from smallest to largest:
- 0.4320
 - 0.6320
 - 0.8410
 - 0.0096
16. Write $\frac{2}{5}$ as a percent.
- 20%
 - 25%
 - 30%
 - 40%
17. Change 40% to a decimal:
- 0.004
 - 0.04
 - 4
 - 0.4
18. What percent of 40 is 22?
- 40%
 - 55%
 - 60%
 - 65%
19. Jody bought 17.4 gallons of gas and then drove 251.8 miles before the gas gauge read empty. How many miles did she get per gallon?
- 14.47 miles/gallon
 - 13.36 miles/gallon
 - 12.28 miles/gallon
 - 11.98 miles/gallon
20. A medication is to be given at 1400 military time. What time is that in traditional time?
- 2:00 p.m.
 - 3:00 p.m.
 - 4:00 p.m.
 - 5:00 p.m.