

Southwestern College - Paramedic Program

Basic math / metric system exam 2

DO NOT WRITE ON THE EXAM - USE THE ANSWER SHEET PROVIDED!! NO CALCULATORS ARE PERMITTED.
USE THE BACK OF THE ANSWER SHEET FOR YOUR SCRATCH PAPER.

1. On a strip of EKG paper, each small box represents .04 seconds. How many boxes would indicate .20 seconds?
2. How many seconds would 20 boxes represent?
3. If you needed to give 500 milliliters of IV fluid in three hours, how much would you need to give in one minute?
4. The prefix "deci-" (example deciliter) in the metric system represents:
 - a. 1 / 10 of a liter
 - b. 1 / 100 of a liter
 - c. 10 liters
 - d. 100 liters
 - e. 1000 liters
5. The prefix "milli-" (example milligram) in the metric system represents:
 - a. 1 / 100 of a gram
 - b. 1 / 1,000 of a gram
 - c. 100 grams
 - d. 1,000 grams
 - e. none of the above
6. If a drug was to be given at the dose of .002 mg per kilogram of body weight and your patient weighed 50 kilograms, what would be the dose needed?
7. Bretyllium is usually ordered at the dose of 5 milligrams per kilogram. If your patient weighs 65 kilograms, what is the dose?
8. If Lidocaine is supplied to you with 100 milligrams of medicine in 5 milliliters of fluid, how many milliliters of that fluid would you need to give the patient 35 milligrams of Lidocaine?
9. $\frac{1}{6} \div \frac{1}{5} =$ _____
10. $\frac{1}{8} \times 9.5 =$ _____
11. $\frac{1}{15} \times \frac{65}{4} =$ _____
12. $.105 \times .50 =$ _____
13. $575 \div 3.2 =$ _____
14. $.09 \times 35 =$ _____
15. $45 \div .05 =$ _____