**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Chapter:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2016 Louisiana Veterinary Science CDE- Math Practicum**

Directions: Circle the correct answer to the question.

1. You pull the thermometer and read a temperature of 37.8 degrees Celsius. The doctor says that is normal and he does not think the mare’s colic is due to an infectious cause. From the mare’s head Mr. Wagoner comments that he never has understood the Celsius scale and wants to know what the mare’s temperature is in Fahrenheit. What is the mare’s temperature in degrees Fahrenheit?

A) 96 degrees

B) 98 degrees

C) 100 degrees

D) 102 degrees

1. Dr. Tietbaum gives Molly the medicine for Shep, then pulls on a palpation sleeve, lubes it up and prepares to palpate the mare. He finds that everything is in the right place in the mare, but that the fecal balls he encounters are dry and hard indicating slow passage through the digestive tract. He decides to administer mineral oil and water via a nasogastric tube as a laxative. He asks you to get a bucket, a nasogastric tube, a pump and a one gallon jug of mineral oil out of the truck. The pump he uses will pump 4 oz of fluid per stroke. How many strokes will it take to pump the entire gallon of oil plus a gallon of water?

A) 20

B) 32

C) 64

D) 128

1. 1000 mg = \_\_\_\_\_ g

A) .001 B) .01 C) 1 D) 10

1. A cat in end-stage renal disease is receiving Epoetin (2000 u/ml). The dose is 100 u/kg. Your patient weighs 5.5 lb. How many units will you deliver?

A) 250

B) 500

C) 750

D) 1000

Dr. Tietbaum gives Ms. Minerva the instructions and has just hung up the phone when a pickup and stock trailer roll in to the clinic yard. You and doc arrive in the back of the clinic to find Rob Whey, the owner of Whey Out Dairy unloading a Holstein cow into the pens near the hydraulic chute. The cow is obviously lame on her left hind foot. The three of you get the cow into the chute and doc examines the foot. He diagnoses digital dermatitis also known as hairy heel warts. It is a tough disease to treat, and it is likely that quite of few of Mr. Whey’s 500 Holsteins are affected. Dr. Tietbaum says he has just read an article about using a topical antibiotic spray to treat these cases and he wants to treat this as a herd problem, not just a single cow problem. As Rob loads the cow back into the trailer you and doc mix up the spray to send home with Rob to treat the whole herd. Dr. Tietbaum has you help him prepare several 16 gram packets of Lincomix powder. The spray will be created by mixing one 16 gram packet in 2 liters of water to create the correct concentration.

1. What is the concentration of the foot spray in mg/ml?

A) 16 mg/ml

B) 8 mg/ml

C) 160 mg/L

D) 80 mg/ml

1. This is an extra label use of this drug, so Dr. Tietbaum wants to make sure the instructions he puts on the label are clear. The direction portion of the label will read:

Use as a topical spray at the rate of 20 cc per foot.

Week 1 – Treat all feet of all cows once daily for 7 days.

Week 2 and beyond – Treat all feet of cows with lesions only.

How many cows can be treated with a solution made with one packet of Lincomix?

A) 10 B) 25 C) 50 D) 100

1. How many packets of powder will need to be sent to the dairy for the first week of treatment?

A) 500

B) 320

C) 140

D) 20

2016 Math Practicum Key

1. C
2. C
3. C
4. A
5. B
6. B
7. C