

## Numbers and Operations: Veterinarian

### Equine Hospital and Lameness Center

**Job Description:** Veterinary medicine and surgery.

---

#### **Problem:**

A horse weighs 1,200 pounds. He is sick and has been diagnosed with a certain disease. This disease is treated with Drug X. Instructions are to give 3 mg/kg orally twice a day for 5 days. The medicine is provided in 200 mg tablets.

2.2 pounds = 1 kg



How many tablets need to be dispensed each day?

How many tablets need to be dispensed for the 5 days of treatment?

## Numbers and Operations: Veterinarian

### Equine Hospital and Lameness Center

**Job Description:** Veterinary medicine and surgery.

---

#### **Problem:**

A horse weighs 1,200 pounds. He is sick and has been diagnosed with a certain disease. This disease is treated with Drug X. Instructions are to give 3 mg/kg orally twice a day for 5 days. The medicine is provided in 200 mg tablets.

2.2 pounds = 1 kg



How many tablets need to be dispensed each day?

How many tablets need to be dispensed for the 5 days of treatment?

#### **Solution:**

$1,200 \text{ lbs} \div 2.2 \text{ lbs/kg} = 545 \text{ kgs}$  (weight of horse)

$545 \text{ kgs} \times 3 \text{ mg/kg} = 1,635 \text{ mg}$

$1,635 \text{ mg} \times 2 \text{ times/day} = 3,270 \text{ mg per day}$

$3,270 \text{ mg/day} \div 200 \text{ mg/pill} = 16.35$  or 16 pills per day

$16.35 \text{ pills/day} \times 5 \text{ days} = 81.75$  pills to be dispensed

**Open-ended discussion:** What would you do about the partial pill?