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

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Livestock Math ANSWERS

1. A piglet is at its first weigh in is 55lbs after being fed for 100 days the lab is weighed again and weighs 200lbs, what was its average daily gain? Round to the nearest hundredth.

ANSWER: **\_\_\_\_\_1.45\_\_\_\_\_** lbs/day

**1. 200 - 55 = 145 (weight gained)**

**2. 145 ÷100 (days) = 1.45**

**Weight gained (lbs)**

**Number of days fed (days)**

**Avg Daily Gain =**

2. A steer is fed 1,900 pounds of feed and gained 260 pounds what is the feed conversion ratio of this steer? Round to the nearest tenth.

ANSWER: **\_\_\_7.3\_\_\_** FCR

**1. 1900 (Feed Intake) ÷ 260 (gained weight) =**

**2. FCR = 7.3**

**Feed Intake (lbs)**

**Gained Weight (lbs)**

**Feed Conversion Ratio**

**=**

3. Formulate 100 lb of a sheep ration containing 22% CP (crude protein) using corn (20% CP) and a commercial supplement (35% CP). Round to the nearest tenth.

ANSWER: **\_\_\_\_86.7\_\_\_\_** Corn and **\_\_\_\_\_13.3\_\_\_\_\_** Commercial Supplement

Corn Commercial Supplement Crude Protein

**X = 86.7 (Corn)**

**X = -1300 ÷ -15**

**+**

**=**

**2200-3500 = -1300**

**20-35 = -15X**

**-15X = -1300**

**2200**

**× 100**

**22**

**3500 – 35X**

**35**

(100-X)**\_35\_**

**20X**

**X**

**20**

X = **\_\_\_\_86.7\_\_\_** (Corn) 100- \_\_\_86.7\_\_\_\_ = **\_\_\_\_\_\_13.3\_\_\_\_\_** (Commercial Supplement)