

## Lesson 3: Principles of Beef Cattle Selection

Name \_\_\_\_\_

## Calculating Adjusted Weaning Weights

$$\text{Adjusted weaning weight} = \frac{\text{actual weight} - \text{birth weight}}{\text{age (days)}} \times 205 + \text{birth weight} + \text{age of cow adjustment}$$

**Objective:** Calculate adjusted weaning weights.

Age of Cow Adjustment		
Age (Years)	Adjustment for Male Calves	Adjustment for Female Calves
2	+60	+54
3	+40	+36
4	+20	+18
5-10	0	0
+11	+20	+18

Using the formula adjustment given adjusted weaning calves in the Round to the nearest pound.

and the age of cow above, calculate the weights for the following problems.

Example: Calculate the adjusted weaning weight for a 200-day-old bull calf from a three-year-old cow. The calf had a birth weight of 80 pounds and now weighs 500 pounds.

$$\frac{500 - 80}{200} \times 205 + 80 + 40 = 550.5$$

The calf has an adjusted weaning weight of 551 lbs.

1. A six-month-old heifer calf had a birth weight of 75 pounds and now weighs 600 pounds. The cow was five years old.

2. A 180-day-old bull calf from a twelve-year-old cow currently weighs 480 pounds. Its birth weight was 90 pounds.
3. A two-year-old cow gave birth to a 70-pound heifer calf. The calf now is 210 days old and weighs 390 pounds.
4. A seven-month-old heifer calf with a birth weight of 80 pounds weighs 690 pounds. The cow was two years old at calving.
5. A bull calf from a three-year-old cow had a birth weight of 79 pounds. At 211 days old, it weighs 515 pounds.