

# Answers to Practice TERM TEST #1: Feb. 9, 2007

## ANSWERS:

### Multiple Choice Questions:

#1: b      #2: d

#3: a      #4: a

#5:  $\pm 1.5$  lbs. #6: b

#7: d      #8: d

#9: d      #10: d

#11: c      #12: b

### Calculation Questions:

- #1. a) range = 8  
b) mode = 5  
c) mean = 5.07  
d)  $\bar{X} = 5.07$   
e)  $s = \pm 1.75$

- #2. a) draw distribution: mean = 30,  $s = \pm 3$   
b)  $\bar{X} = 32.52$   
c)  $z = 49.01$ , percentile rank = 99.01%

- #3. a)  $s^2 = 104.83$   
b)  $s^2 = 2\,311.73$   
c)  $r_{xy} = 0.89$   
d) predicted  $Y = 180.93$   
e)  $S_{est} = \pm 21.92$   
f) range =  $180 \pm 21.92$