

Common Core Standards grades 6-7 Statistics and Probability

1. National wildlife officers examine the health of tagged adult Florida Key deer. The following are their most recent results:

Tag #	Gender	Weight (lb)
1	F	45
2	M	70
3	F	60
4	M	60
5	M	56
6	M	75
7	F	50
8	F	64
9	F	48
10	F	62

Calculate the median weight for:

- A. Sample
- B. Females
- C. Males

Calculate the mean weight for:

- A. Sample
- B. Females
- C. Males

2. Officer Mike Kaczynski has told Kenzie the herd of Key deer on Big Pine Key totals 496. The herd consists of 146 males and 349 females. Assuming that Kenzie sees two different deer on her morning bike ride through the refuge, what is the probability that they will both be female?

Companion questions for *Island Sting* by Bonnie J. Doerr

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Answer Key:

1. Median weight: A. 60 lb B. 55 lb C. 65 lb

Mean weight: A. 59 lb B. 54.83 lb C. 65.25 lb

2. $P(A \cap B) = P(A) P(B | A)$

$$P(A \cap B) = 349/496 \times 348/495$$

$$P = 0.49467$$