

1) According to a recent survey taken by Gallop, 45% of Americans own at least 3 pets, while 25% own 4 or more.

a) Find the standard deviation.

1.852

b) Find the mean.

2.759

c) Find the number of pets needed to own to be in the 40th percentile (Do not round)

2.296

2) In 2013, of running backs with at least 100 carries, 30% rushed for 1,200 yards or more. 55% rushed for at least 1,000.

a) Find the standard deviation.

307.7

b) Find the mean.

1040

c) How many yards would a running back need to rush in 2013 to be in the 15th percentile.

720

3) The grades in Mr. B's stat classes follow a Normal distribution. Using grades from the best 4 years the following information was found out. 20% of students get at least a 92. 55% of students scored no higher than a 76.

a) Find the standard deviation.

22.535

b) Find the mean.

73.07

c) Find the number of ~~pets~~ needed to own to be in the 40th percentile (Do not round)

67.43625