

Name: _____

Assume the distribution is approximately Normal. A study conducted by Gallop had people go around the country and measure the heights of 10,129 adult males. 7,291 of the males had heights at or below 73 inches. 8,109 of the males had heights of at least 62 inches.

Find the standard deviation.

Find the mean.

Find the height required to be in the 10th percentile.

Find the probability of randomly selecting 4 males whose average height is under 63 inches.

Assume the scores are Normally distributed. 14,542 students took the AP Statistics test in 2003. The multiple choice section has 40 questions on it. 3,781 students got 13 questions or less correct that year. 9,885 students got 15 or more that year.

1. What is the standard deviation of the 2003 AP Statistics exam:

2. What is the mean score on the 2003 AP Statistics exam:

3. What percentile would you be in if you got 26 questions correct:

Assume the scores are Normally distributed. 7,646 students took the AP Statistics test in 1997. The multiple choice section has 35 questions on it. 2,889 students got 22 questions or less correct that year. 1,885 students got 29 or more that year.

1. What is the standard deviation of the 1997 AP Statistics exam:

2. What is the mean score on the 1997 AP Statistics exam:

3. How many questions must you get right to be in the 20th percentile:

Assume the following distribution is approximately Normal. 452 students were asked how many pets they own. 130 students said they own no more than 4 pets. 26% of the students said they own at least 9 pets.

Find the standard deviation.

Find the mean.

Find the number of pets a student must own to be in the 60th percentile.

Find the probability that 6 students would have an average of 8 or more pets owned.

Assume the following distribution is approximately Normal. 73% of students said they have at least 6 Twitter followers. 80% of students said they have no more than 25 followers.

Find the standard deviation.

Find the mean.

How many students would have to be dumb enough to follow you to put you in the 90th percentile.

Assume the following distribution is approximately Normal. Students were given a 15 question test on the unbelievably difficult stat words, like at most and at least, to see if they knew the meaning. 30% of the students given the test got at least 10 questions correct. 35% of the students got at most 5 questions right.

Find the standard deviation.

Find the mean.

How many questions must a student get correct to be in the 15th percentile