

Math 21 – Chapter 7 Project

1) IQ scores are approximately normally distributed with a mean of 100 points, and a standard deviation of 15 points. Find the probability that a person has an IQ of 110 or lower.

2) The weights of salmon fillets at a fish market follow a normal distribution with a mean of 21 ounces and a standard deviation of 2.3 ounces. Find the probability that an individual salmon fillet will weigh more than 25 ounces.

3) The lengths of newborn baby girls follow a normal distribution with a mean of 21 inches and a standard deviation of 0.8 points. Find the probability that a randomly selected newborn baby girl has a length between 21.5 inches and 23 inches.

4) The heights of adult males are normally distributed with a mean of 69.0 inches and a standard deviation of 2.8 inches. What height separates the shortest 15% of adult males from the rest?