Name: _____

Quiz

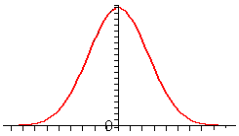
1. Compute the probability of getting a sum of 3 or more in throwing 2 dice.

2. A (hypothetical) frequency distribution for the age of people in a survey, the categories have the probabilities as shown. One number is missing – what is the missing number?

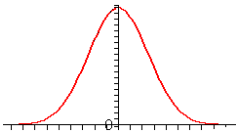
Category	**Probability**
0 – 18	0.20
19-40	0.30
41-65	
65 and older	0.15

3. If z has a standard normal distribution N(0,1), use the table on the reverse to find:

$P(z > 1.2)$



$P(-1 < z < 2)$



3. Find the appropriate z-score of a variable X with mean 8 and standard deviation 4 if X = 14.

4. Each score listed below comes from a sample with the indicated mean and standard deviation. Convert each one to a z-score and find the indicated probability using the table on the reverse side.

   a) Normal distribution N(6,4), .i.e. mean 6, standard deviation 4). Find $P(x < 9)$

   b) Normal distribution N(4, 1.5), i.e. mean 4, standard deviation 1.5. Find $P(3 < X < 5)$