[1] (6 points) The following photo shows a crowd at the Trevi fountain in Rome. 
(a) Would you regard this as a dense crowd, a moderate crowd, or a light crowd? 
(b) Based on your answer to (a), how many people do you estimate are in the crowd? 
Explain how you obtain your answer.


[3] (6 points) Suppose ACT scores in a particular year are approximately normally 
distributed with mean 20 and standard deviation 6. 
(a) What z value does 29 represent? 
(b) Use the table on page 709 to determine the proportion of test-takers that receive a 
   29 or better on the ACT. 
(c) What ACT score must you get if 69.15% of test-takers received a higher score than 
   you?

[4] (7 points) A CBS/NYT poll (conducted September 19-23 of this year) surveyed 
1,042 adults and asked what they thought the state of the country is. In total, 41% of 
respondents thought the country was in the right direction, while 53% thought the 
country is headed on the wrong track. Determine a 95% confidence interval for the 53% 
wrong track figure, and show how you compute your answer.