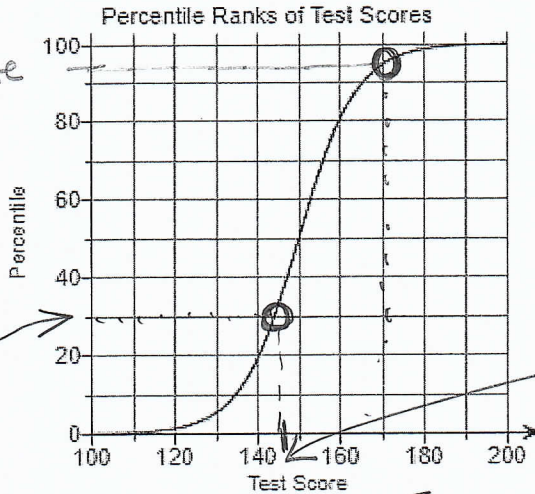


Ogive Graphs:

Ogive (pronounced oh-jive) graphs show off percentiles in an interesting way. The vertical axis in an ogive is the cumulative relative frequency and can also be interpreted as a percentile. Let's practice interpreting this one which displays the percentiles of a fictional standardized test's scores.

estimate
(part a)



estimate
(part b)

(source: MyStatLab, Fundamentals of Statistics, Sullivan)

expl 8: Use the above ogive to answer the following questions.

a.) Estimate and interpret (complete sentence below) the percentile rank of the test score 170.

A test score of 170 equates to the 95th percentile. That means that 95 % of the scores would be less than or equal to 170.

b.) What test score falls at the 30th percentile? Do your best to estimate it from the graph. Complete the sentence below.

So, 30% of the scores are less than or equal to the (estimated) score of 145.