Problems



Frequency polygon of correctly solved analogy problems showing both the raw-score scale and the standard-score scale.

- **3.** R = 65, $s_{approx} = 16.25$, $s^2 = 264.75$, s = 16.27, $z_{96} = 0.91$. The score 2 standard deviation units below \bar{X} is 48.6. **4.** R = 4, $s_{approx} = 1$, $s^2 = 1.62$, s = 1.27 **5.** $s_A = 0.16$, $s_B = 0.11$. Applicant B gets the job.

- 6. $\overline{x} = 74.33$, s = 13.64. All employees scoring less than 74.33 13.64 = 60.69 are required to take another week of training. Five employees scored less than 60.69.



Frequency polygon showing both the raw-score scale and the standard-score scale.

8. a. z_{3.75} = 1.42
b. z_{2.10} = -0.57
c. A score of 1.3 is 1.53 standard deviation units below the mean.
d. X = 4.02
e. X = 0.77