Directions: Diagram each of the problems below on a normal curve. Then show all the calculations used to arrive at the answers and be sure to circle them. Please express your answers out to two decimal places.

1. What percent of the scores fall between $z$-scores of -2.03 and 1.47 ?
2. What z -score is equivalent to the 15 th percentile $\left(\mathrm{P}_{15}\right)$ ?
3. Above what T-score do $9 \%$ of the scores lie?
4. What percent of the scores lie less than (within) . 75 standard deviations of the mean?
5. You would like to award special fitness awards to all clients who do well on your physical fitness assessment. "Ironman/woman" awards will be given to those whose cumulative fitness T-score is above 70. "Superman/woman" awards will go to those with T-scores between 55 and 70. And "I am Fit" awards will go to everyone with T-scores between 45 and 55. Illustrate and label these areas on your normal curve. If Lucy's combined total is a raw score of 73 , what award will she get if the mean for X was 68 with the standard deviation was 6 .
