

Quiz 10 Review

Name: _____

Area Under the Curve, and Calculations with Normal Curves Date: _____ Period: _____

Vocabulary—Use your notes to find the exact answer that fits each blank.

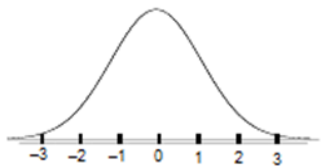
1. The edges of Table A give the _____; the body of Table A gives the _____.
2. Table A provides the area under the curve to the _____ of a given z-score
3. If you are given an x and asked to find a proportion, percentage, or area then you are solving a Type _____ calculation problem.
4. If you are given a percentile or percent and asked to find an x then you are solving a Type _____ calculation problem.
5. In a standardized Normal curve the mean is equal to _____ and each standard deviation goes up or down by _____.

Work Problems—answer each question fully.

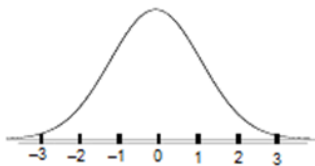
LESS THAN, GREATER THAN, BETWEEN

Use Table A to find the area under the curve for each of the following statements. In each case, shade the area under the curve and answer to the question.

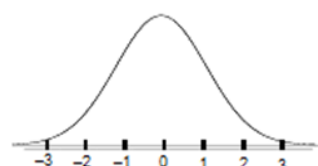
6. less than -1.34



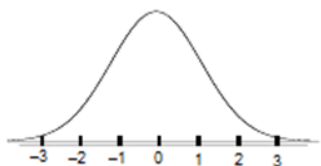
7. greater than -1.10



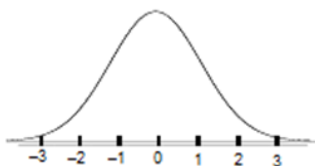
9. between 2.04 and -0.12



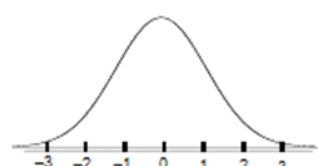
6. between $-.67$ and -2.02



8. less than 0.64



10. greater than 0.78



CALCULATIONS WITH NORMAL CURVES

Scores on the Wechsler Adult Intelligence Scale for 20- to 34-year-olds are approximately normally distributed with mean 110 and standard deviation 25.

11. What percent of scores are less than 100?

12. How high must a person score to be in the top 25% of all scores?

13. Find the 59th percentile of the IQ scores distribution of 20 to 34 year olds.

14. At what percentile would a person be if they scored a 123 IQ?

15. What percent of scores are between 80 and 105?

16. What percent of scores are greater than 121?