Lesson 3.5 Practice: Finding Values from Normal Proportions

School Launch · Statistics · Unit 3: Position and the Normal Distribution · Worksheet A

Calculator / tables

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. $X \sim N(380, 20)$. Find the 5th percentile (nearest tenth). EASY

2. $X \sim N(399, 39)$. Find the 90th percentile (nearest tenth). EASY

3. $X \sim N(224, 32)$. Find the 10th percentile (nearest tenth). EASY

4. $X \sim N(90, 15)$. Find the 10th percentile (nearest tenth). MEDIUM

5. $X \sim N(111, 18)$. Find the 75th percentile (nearest tenth). MEDIUM

6. $X \sim N(254, 60)$. Find the 75th percentile (nearest tenth). MEDIUM

7. $X \sim N(152, 7)$. Find the 20th percentile (nearest tenth). MEDIUM

8. $X \sim N(262, 16)$. Find the 95th percentile (nearest tenth). HARD

9. $X \sim N(297, 17)$. Find the 10th percentile (nearest tenth). HARD

10. $X \sim N(147, 42)$. Find the 25th percentile (nearest tenth). HARD