Lesson 8.1 Practice: Binomial Settings and the Binomial Formula

School Launch · Statistics · Unit 8: Binomial and Geometric Distributions · 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. $X \sim B(4, 0.3)$. Find $P(X = 1)$ (four decimals).

EASY

2. $X \sim B(10, 0.9)$. Find $P(X = 2)$ (four decimals).

EASY

3. $X \sim B(9, 0.7)$. Find $P(X = 5)$ (four decimals).

EASY

4. $X \sim B(10, 0.1)$. Find $P(X = 10)$ (four decimals). MEDIUM

5. $X \sim B(11, 0.1)$. Find $P(X = 10)$ (four decimals). MEDIUM

6. $X \sim B(5, 0.9)$. Find $P(X = 4)$ (four decimals).

MEDIUM

7. $X \sim B(12, 0.8)$. Find $P(X = 6)$ (four decimals).

MEDIUM

8. $X \sim B(6, 0.7)$. Find $P(X = 5)$ (four decimals).

HARD

9. $X \sim B(6, 0.6)$. Find $P(X = 1)$ (four decimals).

HARD

10. $X \sim B(10, 0.5)$. Find $P(X = 3)$ (four decimals). HARD