

I'm not a robot!

MDM4U Binomial Distribution Worksheet

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

1. Which of the following is not a property of a binomial experiment?
a. All trials are identical.
b. Each trial has only two possible outcomes.
c. The probability of success may change from trial to trial.
d. The purpose of the experiment is to determine the number of successes that occurs during the n trials.

2. In the expression of $\binom{8}{3} (0.2)^3 (0.8)^5$, which value represents the number of trials?
a. 2 b. 3 c. 5 d. 8

3. In the expression of $\binom{7}{2} (0.4)^2 (0.6)^5$, which value represents the probability of failure?
a. 0.6 b. 0.4 c. $(0.4)^2$ d. $(0.6)^5$

4. In the expression of $\binom{10}{3} (0.5)^3 (0.5)^7$, which value represents the number of successes?
a. 3 b. 10 c. 5 d. 7

Binomial Expansion

Example 1

Expand $(2x - 1)^4$

Answer:

$$\begin{aligned} C_0(2x)^0(-1)^4 &+ \frac{1}{2}C_1(2x)^1(-1)^3 \\ C_2(2x)^2(-1)^2 &+ \frac{1}{3}C_3(2x)^3(-1)^1 \\ C_4(2x)^4(-1)^0 &+ \frac{1}{4}C_5(2x)^5(-1)^{-1} \end{aligned}$$

$$16x^4 - 32x^3 + 24x^2 - 8x + 1$$

Example 2

Find the 6th term of the expansion $(\frac{1}{2}x - 2)^6$

Answer:

$$\frac{6}{0} C_6 \left(\frac{1}{2}x\right)^2 (-2)^6 = -96x$$

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