BINOMIAL EXPANSION THEOREM

$$(x+y)^{2} = 1$$

$$(x+y)^{2} = |x+y|$$

$$(x+y)^{2} = |x+y|$$

$$(x+y)^{3} = |x+y|$$

$$(x+y)^{3} = |x+y|$$

$$(x+y)^{4} = |x+y|$$

$$(x+y)^{5} = |x+y|$$

$$(x+y)^{5$$

$$(3x^{2}y)^{4} = |(3x)^{4}(3x)^{2}(2y)^{2} + |(3x)^{2}(2y)^{2} + |(3x)^{2}(2y)^{2} + |(2y)^{4}(2y)^{4} +$$

BINOMIAL PROBABILITY

- 1) 2 possible outcomes
- 2) Independent Events Same chance every time
 the action is performed

Kirby Kicker - makes 65% of field goals under 40 yards. What is the probability hits exactly 5 of his next 7 attempts?

255 F2 $\left(\frac{1}{2}\left(0.65\right)^{5}\left(0.35\right)^{2}\approx0.298$ 10 Questions - Mult. Choice

A, B, C, D

What is prob of exactly 8 right? $C_2R^8W^2$ $C_2(0.2s)(0.7s)^2 = 0.000386$