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MDM4U

Unit 5: Probability

5.3 Probability

Example 1: The letters of the word ASYMPTOTE are being arranged. What is the probability that the resulting arrangement:

a) Spells ASYMPTOTE?

A = spelli asymptote
$$P(A) = \frac{1}{181,440}$$
 or 0.0066 % chance $n(A) = 1$

$$n(s) = \frac{9!}{2!} = 181,940$$

b) Begins with S?

$$B = begin = I = D$$

$$n(B) = \frac{B!}{J!} = 20.160$$

c) Has the S and Y apart?

= 141,120

Example 2: Yasmin draws three cards from a standard deck of cards and places them in a row. What is the probability that all three cards are all kings or all queens?

$$A = 3k \circ 3R$$

 $n(A) - 4P3 + 4P3 = 48$ $P(A) = \frac{48}{132,60}$

$$n(B) = 4P_3 + 4P_3 = 48$$

 $n(S) = 52P_3 = 132,600$

Example 3: Minh draws five cards from a standard deck of cards and places them in a row. What is the probability that all five cards are all face cards or all red cards?

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