

Sean Poston

CS245 Homework 6

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27) a) $13\% \cdot 3 = 1$

b) $47\% \cdot 7 = -9$

c) $155\% \cdot 19 = 3$

d) $-221\% \cdot 23 = -14$

17) $\binom{5}{128} = \text{prob / string of "0"}$

128^5 possible strings

$128^5 \times \frac{5}{128} = \boxed{1,342,177,280}$ string combinations

32) a) $n = 16$

$16C5 = 4368$ possible combinations

$4C5 = 126$ combinations of only men

$4368 - 126 = \boxed{4242}$ combinations of at least 1 woman

b) $7C5 = 21$ combinations of only women

$4368 - 126 - 21 = \boxed{4221}$ combinations with 1 man / 1 woman