

Homework 29, Section 5.4 2, 7, 10, 14, 18 (a formula answer is sufficient), 20, and the problem below.

Alex Gordon

November 11, 2013

Homework

2. A)

$$C(8, 6) = 28 \text{ possibilities}$$

2. B)

Same question, so 28

2. C)

$$2^8 - C(8, 1) = 247$$

7.

$$C(4, 4) \cdot C(7, 3) \cdot C(10, 3) = 4,200$$

10.

$$C(11, 2) \cdot C(9, 2) \cdot 5 \cdot C(7, 2) = 9,989,600$$

14.

Fruit	Equation	Binary Sequence
5a, 5b	$5 + 5 + 0 = 10$	000001000001
5a, 5p	$5 + 5 + 0 = 10$	000001100000
1a, 9p	$1 + 0 + 9 = 10$	011000000000
10 b	$0 + 10 + 0 = 10$	100000000001

18.

$$C(49, 20) = \text{Some really big number I'm too lazy to copy.}$$

The "Problem below" A)

$$C(13, 6) = 1716$$

The "Problem below" B)

$$C(19, 12) = 50,388$$

The "Problem below" C)

$$C(31, 24) = \textit{Somebignumber}$$

The "Problem below" D)

$$C(11, 4) = 330$$

The "Problem below" E)

$$C(15, 9) = 5005$$