Ex4. When three coins are tossed, what is the probability that all three are heads?

Ex5. Roman has a collection of 26 books- 16 are fiction and 10 are nonfiction. He randomly chooses 8 books to take with him on vacation. What is the probability that he chooses 4 nonfiction and 4 fiction?

Order does P(4non, 4 Rd) =
$$\frac{C(10,4) \cdot C(16,4)}{C(26,8)} = .2446$$

Marker P(4non, 4 Rd) = $\frac{C(10,4) \cdot C(16,4)}{C(26,8)} = .2446$

Marker Northern

Ex6. Using the statistics in Example 3, what are the odds that a male born in 1990 will die before age 65? A female born in 1990?

Homework

19. P(2male) =
$$C(4,2)$$
 = .109

 $C(11,2)$ = .209

 $C(11,2)$ = .209

 $C(11,2)$ = .38

 $C(11,2)$ = .38

 $C(11,2)$ = .38

 $C(11,2)$ = .38

 $C(11,2)$ = .38

21.
$$P(Iofeach) = \frac{(4.1) \cdot C(7.1)}{C(11.2)} = \frac{28}{55}$$

OR $\frac{4 \cdot 7}{10} = \frac{28}{110} \times 2 = \frac{28}{55}$

MThen F

 $\frac{7}{10} \cdot \frac{4}{11} = \frac{28}{110}$

F then M