

FRI 4-18-08

TEST ON p. 50-60

2 DAYS:

1) MON

PART G.C.  
55 POINTS P. 50, 54-60

2) TUE

15 POINTS - p. 50-53  
(NO G.C.)

?

$$4|a + 9\checkmark$$

$$3|6\checkmark$$

$$3|2\checkmark$$

$$23|1\checkmark$$

$$17|2\checkmark$$

$$29|3\checkmark$$

$$\textcircled{21} P(\text{AT LEAST 1 DIAMOND})$$

$$\textcircled{29} 1 - \frac{C(32,1)}{C(52,1)}$$

$$1 - P(\text{NO DIAMONDS})$$

$$= 1 - \frac{C(39,5)}{C(52,5)}$$

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$$(23) a) P(5 \text{ BLACK}) = \frac{C(26, 5)}{C(52, 5)}$$

$$\begin{aligned} &P(\text{AT LEAST 1}) \\ &= 1 - P(\text{NONE}) \end{aligned}$$

$$e) P(4 \text{ACES}) = \frac{C(4, 4) \cdot \overset{48}{\downarrow} \overbrace{C(48, 1)}}{C(52, 5)}$$

⋮

17a) 3F 2M

$$\frac{\underline{C(6,3)} \cdot \underline{C(5,2)}}{C(11,5)}$$

⋮

$$c) \frac{C(6,5) \cdot \overbrace{C(5,0)}^{(opt)}}{C(11,5)}$$

$$\begin{aligned} \textcircled{39} \text{ a) ODDS(BLUE)} &= \frac{P(B)}{P(B')} \\ &= \frac{\frac{4}{12}}{\frac{8}{12}} \\ &= \underline{\underline{1:2}} \end{aligned}$$

$$\textcircled{29} \quad F \text{ OR CLUB} \\ 12 + 13 - 3$$

$$= \frac{22}{52} = \frac{11}{\underline{\underline{26}}}$$

$$(2) P(\text{BLACK OR ACE}) = ?$$

$$26 + 4 - 2 = 28$$

~~52~~

$$\frac{28}{52} = \frac{7}{13}$$



$$\textcircled{41} \quad \underline{2} \cdot \underline{2} \cdot \underline{2}$$
$$= \underline{\underline{8}}$$

H T T	H H T
T H T	H T H
T T H	T H H
H H H	T T T

$$a) P(\text{AT LEAST 1 HEADS}) = \frac{7}{8}$$

$$\text{ODDS}(\text{AT LEAST 1 HEADS}) = \frac{\frac{7}{8}}{\frac{1}{8}}$$
$$= \underline{\underline{7:1}}$$

$$41b) \text{ ODDS}(7) = \frac{P(7)}{P(7')}$$

$$= \frac{6}{36}$$

$$\frac{30}{36}$$

$$= \underline{\underline{1.5}}$$

P.59-60?

21 8 ✓

41 7 ✓

19 1 ✓

17 2 ✓

25c 1

23 5 ✓ 35

(21) AT LEAST 1 DIAMOND

$$= 1 - P(\underline{\text{NO}} \text{ DIAMONDS})$$

$$= 1 - \frac{C(39,5)}{C(52,5)}$$

$$\textcircled{19} \quad 1 - .003 \\ = \underline{\underline{.997}}$$

$\textcircled{35}$  ODDS AGAINST ( $> 4$ )

$$\frac{P(\text{NOT } > 4)}{P(> 4)} = \frac{\frac{4}{6}}{\frac{2}{6}} \\ = \frac{4}{2} \\ = 2:1$$

$$\textcircled{17} \text{ a) } P(3F, 2m) \\ = \frac{C(6,3) \cdot C(5,2)}{C(11,5)}$$

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$$\text{c) } \frac{C(6,5) \cdot C(5,0)}{C(11,5)}$$

$$\textcircled{23} \text{ a) } P(\text{BLACK}) = \frac{C(26,5)}{C(52,5)}$$

$$\text{c) } P \frac{C(16,5)}{C(52,5)}$$

$$\text{e) } \frac{C(4,4) \cdot C(48,1)}{C(52,5)}$$

(41) a, b

$$a) \text{ ODDS (AT LEAST 1 HEAD)} = \frac{P(\cdot)}{P(\cdot)}$$

H H H    H T T  
H H T    T H T  
H T H    T T H  
T H H    T T T

$$\underline{2} \cdot \underline{2} \cdot \underline{2} = 8$$

$$= \frac{7}{8} - \frac{1}{8}$$

$$= 7:1$$

$$b) \text{ ODDS}(7) = \frac{7/8}{1/8} = \underline{\underline{1:5}}$$