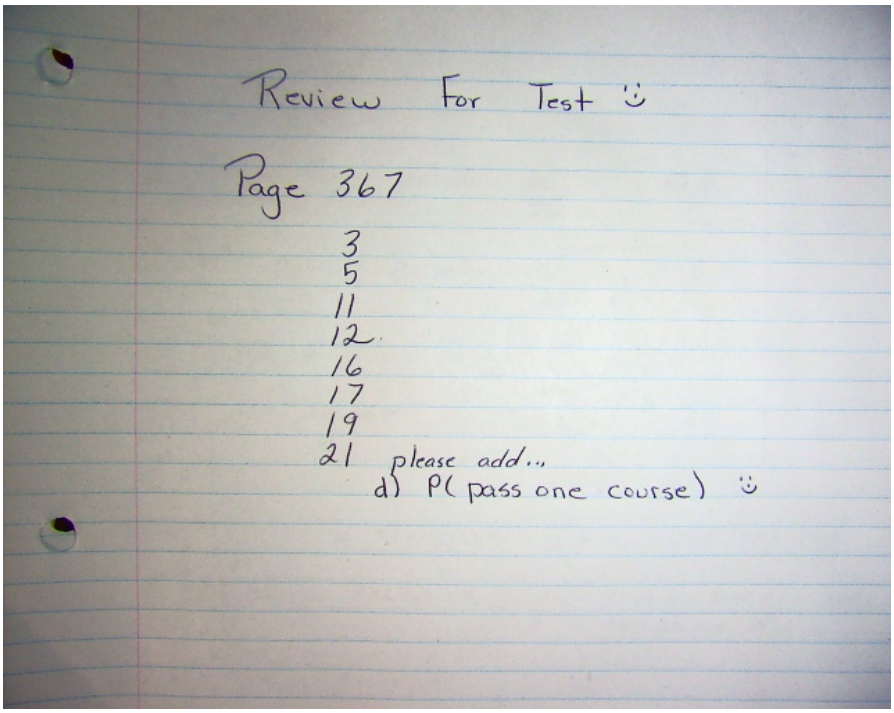
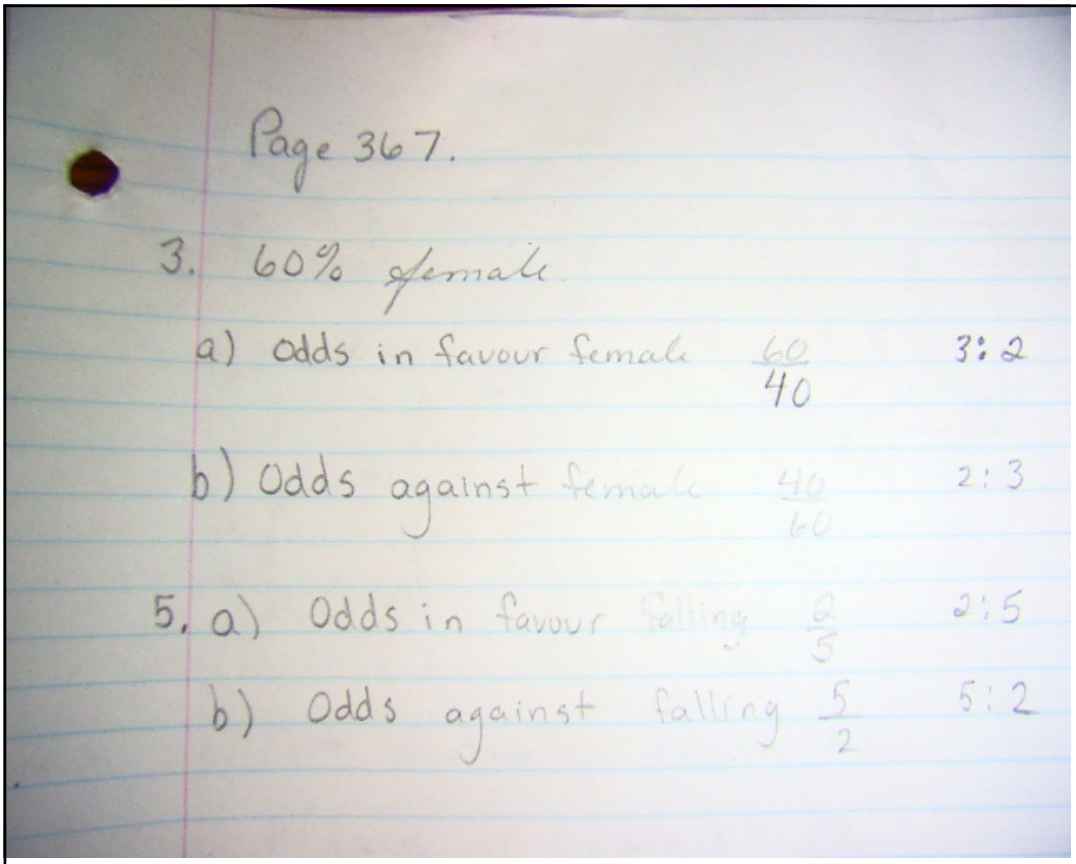

Review For Test ☺
Page 367
3
5
11
12
16
17
19
21 please add...
d) P(pass one course) ☺

Nov 6-1:38 PM



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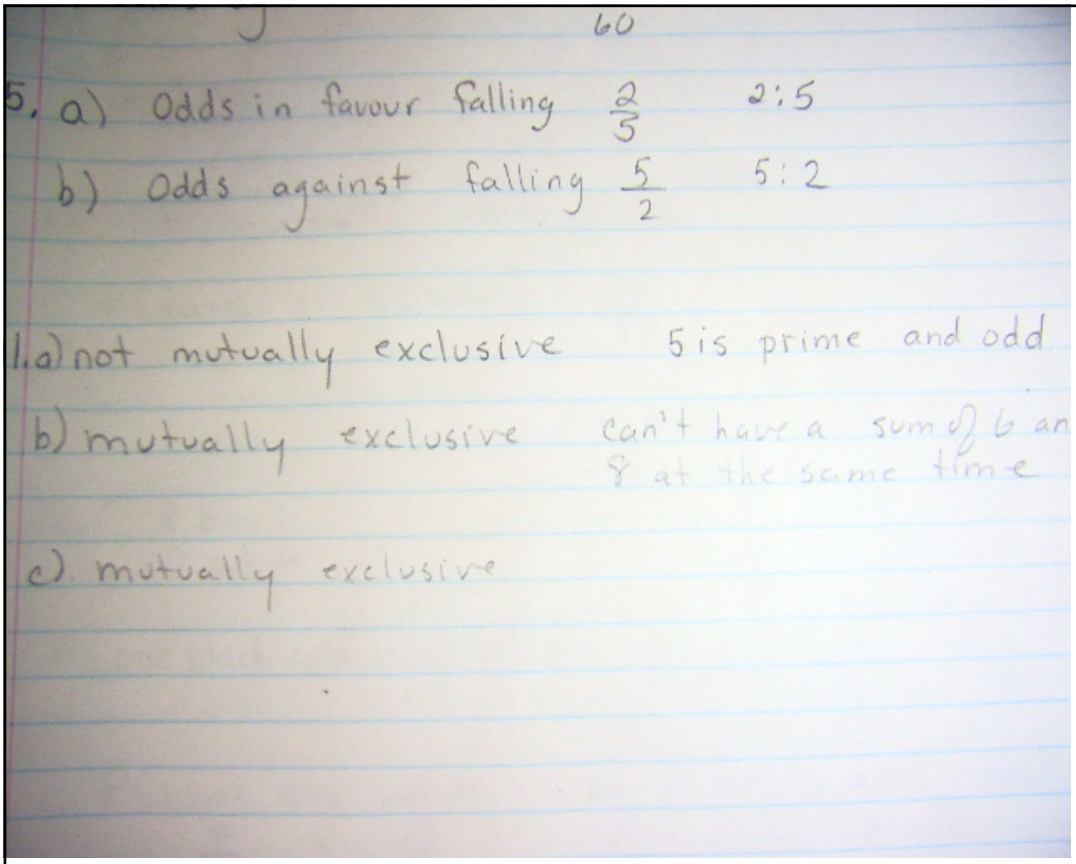
3. 60% female

a) Odds in favour female $\frac{60}{40}$ 3:2

b) Odds against female $\frac{40}{60}$ 2:3

5. a) Odds in favour falling $\frac{2}{5}$ 2:5

b) Odds against falling $\frac{5}{2}$ 5:2



60

5. a) Odds in favour falling $\frac{2}{5}$ 2:5

b) Odds against falling $\frac{5}{2}$ 5:2

1. a) not mutually exclusive 5 is prime and odd

b) mutually exclusive can't have a sum of 6 an 8 at the same time

c) mutually exclusive

Nov 6-1:39 PM

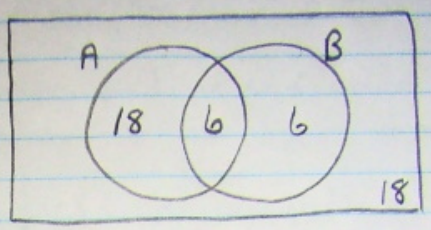
12.

a) A - face
B - spade

pinochle deck

9
10
J
Q
K
A

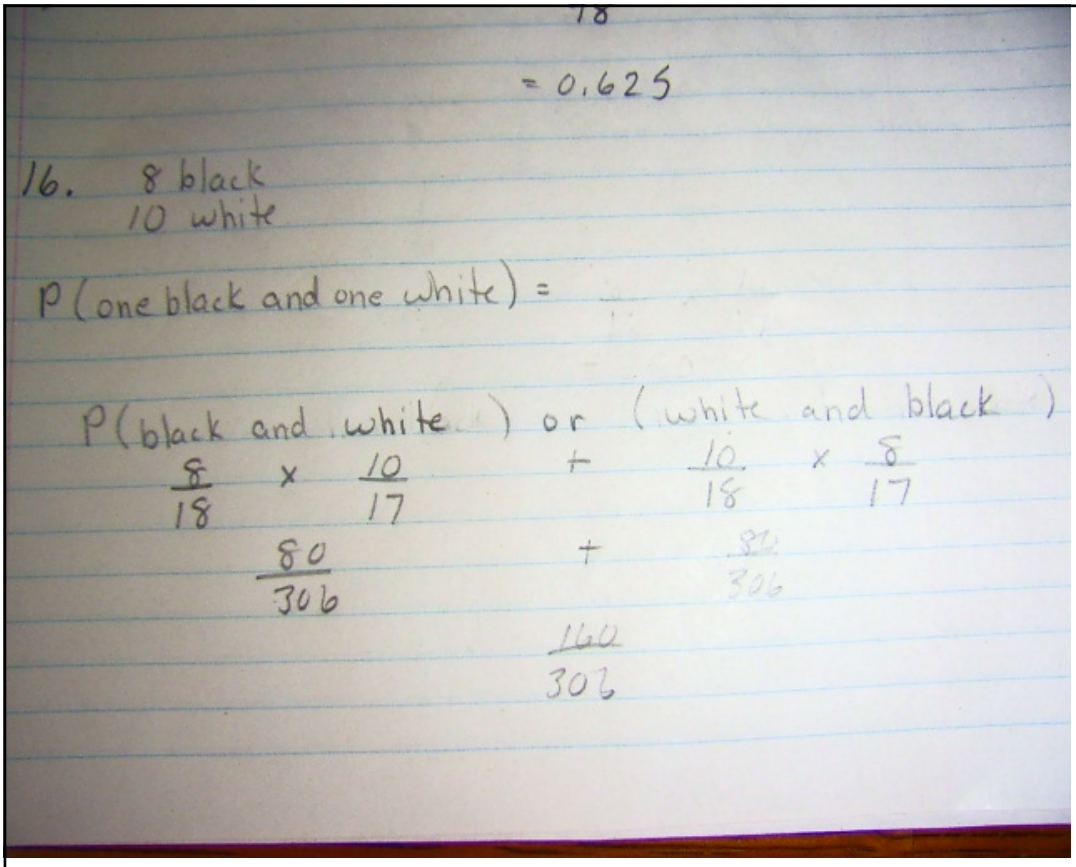
4 suites x 2



b) Not mutually exclusive

c) P(face or spade) = $\frac{30}{48}$

= 0.625



18

= 0.625

16. 8 black
10 white

P(one black and one white) =

P(black and white) or (white and black)

$\frac{8}{18} \times \frac{10}{17}$ + $\frac{10}{18} \times \frac{8}{17}$

$\frac{80}{306}$ + $\frac{80}{306}$

$\frac{160}{306}$

17.

Plane leave Winnipeg on time 0.70

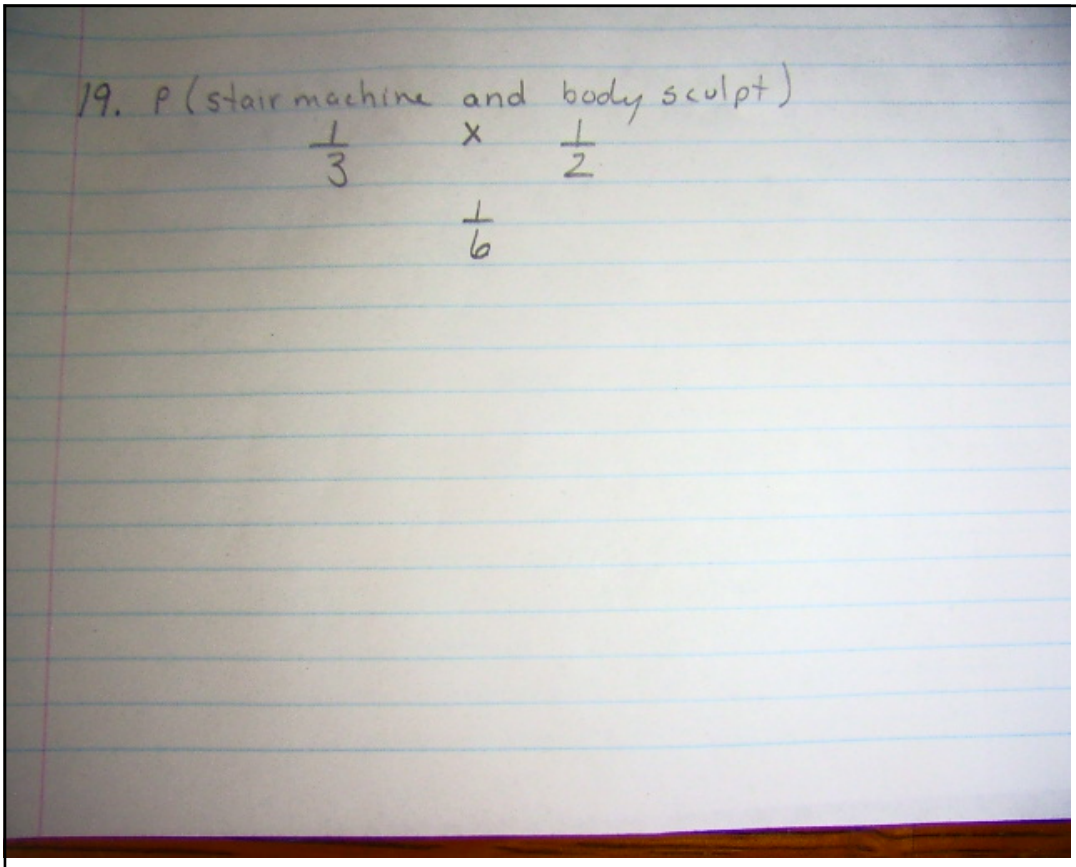
Plane leave winnipeg on time and arrive on time Calgary 0.56

$P(\text{Calgary on time} \mid \text{left winipeg on time})$

$= \frac{P(\text{Calgary} \cap \text{Winipeg on time})}{P(\text{left winnipeg on time})}$

$= \frac{0.56}{0.70}$

$= 0.8$



Nov 6-1:40 PM

21. Passing French 0.7
" Chem 0.6

a) P(Pass Fren and Pass Chem) = 0.7 x 0.6
0.42

b) P(Pass F and Fail Chem) = 0.7 x 0.4
0.28

c) P(Fail F and Fail Chem = 0.3 x 0.4
0.12

d) P(Fail one course)

P(Fail F and Pass C) or (Pass F and Fail C)
0.3 x 0.6 + 0.7 x 0.4

0.18 + 0.28

0.46