

GENETICS HOMEWORK

18-Jan
Griffiths, 9th,
p 79: 1, 9, 28

1 An organism's genome consists of their entire genetic make up which includes individual genes which are located on a given chromosome.

9 In the second division of meiosis, when the centromer splits and chromosomes are pulled to opposite ends of the cell, only a haploid number of chromosomes is pulled to opposite ends of the cell, rather than a diploid as in mitosis.

28 a	red	green	blue	the probability of all three is the product of each:	
prob:	0.166667	0.166667	0.166666667	0.00463	0.46%
	1/6	1/6	1/6		
b and c	same as problem "a"				
d	Probability of no six on red:	1/6	0.833333	Probability of no sixes at all product of them all:	
	Probability of no six on green:	1/6	0.833333	0.578704	
	Probability of no six on blue:	1/6	0.833333	57.87%	
e	Different number on each die:			probability of a different number on each = product of them all:	
	probability of a number on first:		1	0.555556	
	probability of a number on second:	5/6	0.833333	55.56%	
	probability of a number on third:	4/6	0.666667		