

(18)

Chapter 12 Assessment pg 406-407

1-18

1) C

2) C

3) self-pollinating + same traits in offspring

4) cut away pollen-bearing male parts

5) a

6) C

$$7) C \quad \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

8) - inheritance units = genes

- genes have 2 forms or alleles

- sexual reproduction = diploid or 2 copies of genes

- alleles for different genes may segregate independently

9) Y = yellow seed y = green seed

	Y	
Y	YY	Yy
y	Yy	yy

YY : 2Yy : yy

25% 50% 25%

10) d

r	R	r
r	Rr	rr
r	Rr	rr

0% RR

- 12) gene with more than 2 alleles = multiple alleles
polygenic traits are controlled by 2 or more genes
- 13) more possible combinations
- 14) no, environmental conditions can affect gene expression
- 15) d
- 16) d
- 17) b
- 18) $2N=8$ $N=4$ or 4 chromosomes in
each haploid gamete