

Sam has two pet rabbits with gray fur. When her rabbits mated, one of their four offspring had white fur. The other three had gray fur. Which of the following conclusions is most likely true about the genotypes of Sam's rabbits?



GG, GG Gg, Gg

GG, Gg

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ts producing

chances of two



In a species or two plants heterozygous for red petals are crossed, what are the possible genotypes of the offspring?

- a. Rr only
- b. RR, rr only Rr. Fr only
 - d. RR, Rr, and rr



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In corn plants, tall (T) is dominant to short (t). What are the chances of two

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In a breed of dogs, long hair (L) is dominant to short hair (1).

Based on the Punnett square, offspring with long hair is indicated in which box or boxes?



heterozygous tall plants producing short offspring?

a. one in four two in four

three in four four in four



Meth Selu



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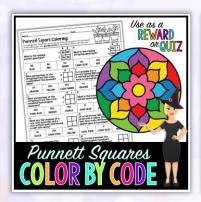
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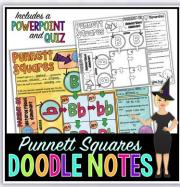






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In a species of flowers, red petals (R) are dominant to orange petals (r). If two plants heterozygous for red petals are crossed, what are the possible genotypes of the offspring?

- a. Rr only
- b. RR, rr only
- c. Rr, rr only
- d. RR, Rr, and rr



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- a. gg, gg
- o. GG, GG
- c. Gg, Gg
- d. GG, Gg

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In a breed of dogs, long hair (L) is dominant to short hair (I).

Based on the Punnett square, offspring with long hair is indicated in which box or boxes?



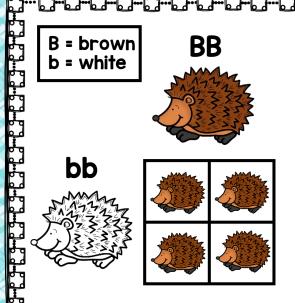
L 1 2

In corn plants, tall (T) is dominant to short (t). What are the chances of two heterozygous tall plants producing short offspring?

- a. one in four
- b. two in four
- c. three in four
- d. four in four



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Explain why in this crossing all of the hedgehog offspring are brown even though they all carry the white gene.

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What are the genotypes of the parents that would result in the following Punnett Square?

? ?

GG GG

a. gg, gg b. GG, GG

c. Gg, Gg

d. GG, Gg

? Gg Gg

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In sheep, the allele for white wool (W) is dominant, and the allele for black wool (w) is recessive.



If a heterozygous white sheep is crossed with a homozygous black sheep, what percent of their offspring could be black?

These parents have two daughters and two sons. Based on the parent's genes, which children have *straight* hair?



Two dominant genes for straight hair.



Two recessive genes for curly hair.

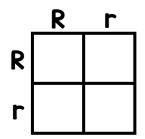
- a. Only the sons.
- b. Only the daughters.
- c. All of the children.
- d. None of the children.

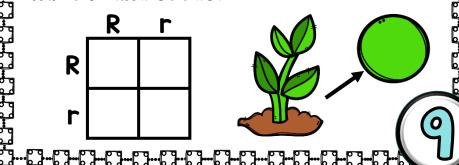
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In pea plants, the allele for round seeds (R) is dominant to the allele for oval seeds (r).

In a cross between these two plants, what percentage of the offspring will have round seeds?





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One cat carries heterozygous, longhaired traits (Ss), and its mate carries homozygous short-haired traits (ss).

Which of the following correctly describes the possible ratios of their offspring.

- 0 long to 4 short
- b. I long to 3 short
- 2 long to 2 short
- 3 long to I short

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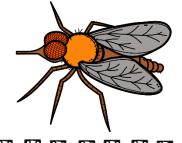
A pink tulip plant (PP) and a white tulip plant (pp) are crossed.

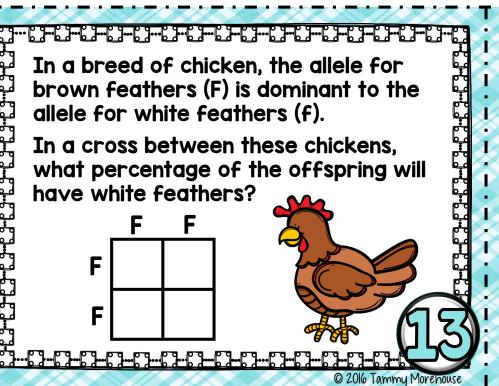
Which of the best describes the genotype of the offspring from this cross?

- a. Homozygous dominant
- b. Heterozygous
- Homozygous recessive

In a breed of flies, red eyes (E) are dominant to black eyes (e).

If a homozygous red-eyed fly (EE) is cross bred with a homozygous blackeyed fly (ee), how many different phenotypes are possible?





W W WW WW WW

In seals, long whiskers (W) are dominant to short whiskers (w).

What are the phenotypes of these parents?



- a. WW. WW
- b. WW. ww
- c. both long
- d. I long, I short

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In dragons, blue horns (B) are dominant to yellow horns (b).

What percent of these offspring would have yellow horns?

a. 0 %

b. 25 %

c. 50 %

d. 75 %

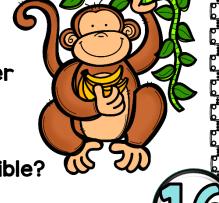
b Bb bb



In a type of monkey, long tails (T) are dominant to short tails (t).

If a heterozygous long tail monkey is crossed with another heterozygous long tailed monkey, how many different

genotypes are possible?



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One cat carries heterozygous, longhaired traits (Ss), and its mate carries homozygous short-haired traits (ss).

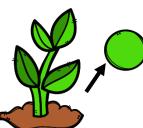
What percent of the offspring would be homozygous long hair?



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R RR Rr r Rr rr In pea plants, the allele for round seeds (R) is dominant to the allele for oval seeds (r).

In a cross between these two plants, what percentage of the offspring will be heterozygous round?



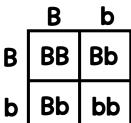
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In dragons, blue horns

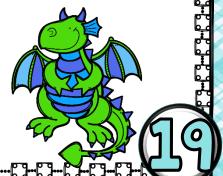
(B) are dominant to yellow horns (b).

What is the ratio of offspring with blue or yellow horns?

- a. I blue to 3 yellow
- b. 2 blue to 2 yellow
- c. 3 blue to I yellow
- d. 4 blue to 0 yellow



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In sheep, the allele for white wool (W) is dominant, and the allele for black wool (w) is recessive.



If a heterozygous white sheep is crossed with a homozygous black sheep, how many different genotypes are possible?

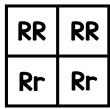
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If a heterozygous red-eyed fly (Ee) is cross bred with a homozygous blackeyed fly (ee), what percentage would have a homozygous genotype?



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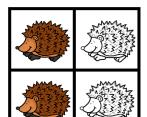
Which of the following statements describes the parental genotypes that would result in this Punnett square?

- a. Both parents are heterozygous.
- b. Both parents are homozygous dominant.
- c. One parent is homozygous recessive and the other parent is heterozygous.
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B = brown b = white





Explain why this crossing could result in white hedgehogs even though brown is dominant.

These parents have two daughters and two sons. Based on the parent's genes, which of the children have *curly* hair?



Two dominant genes for straight hair.



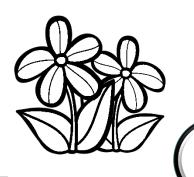
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In a species of flowers, red petals (R) are dominant to orange petals (r). If two plants heterozygous for red petals are crossed, what are the possible genotypes of the offspring?

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- gg, gg
- GG, GG

- Gg, Gg
- GG. Ga

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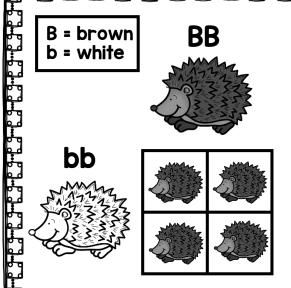
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What are the genotypes of the parents that would result in the following Punnett Square?

.

GG GG

c. Gg, Gg d. GG, Gg

a. gg, gg

b. GG. GG

? | Gg|(

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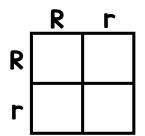


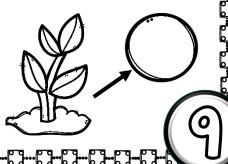
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Which of the following correctly describes the possible ratios of their offspring.

- a. O long to 4 short
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A pink tulip plant (PP) and a white tulip plant (pp) are crossed.

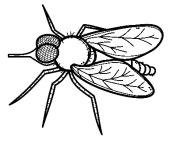
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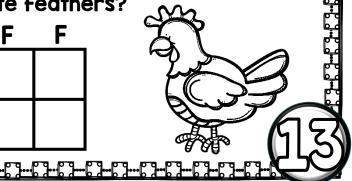
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- a. I
- b. 2
- c. 3
- d. L



In a breed of chicken, the allele for brown feathers (F) is dominant to the allele for white feathers (f).

In a cross between these chickens. what percentage of the offspring will have white feathers?



Wwlww |Ww|ww

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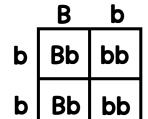
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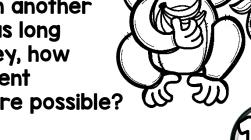




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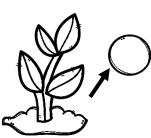
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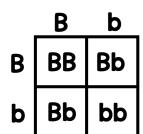


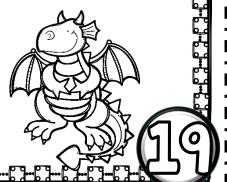
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RR	RR
Rr	Rr

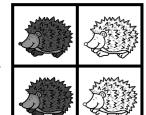
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Punnett Squares Task Cards Write your answers to the task cards in the spaces below.			
2	10	18	
3	11	19	
4	12	20	
5	13	21	
6	14	22	
7	15	23	
8	16	24	

Punnett Squares Task Cards Write your answers to the task cards in the spaces below.			
1	9	17	
D	75%	A	
2	10	18	
C	C	50%	
3	11	19	
All 4 quadrants	B	C	
4 A	12 A	20 2, Ww, ww	
5 Every offspring receives a dominant allele.	13 0%	21 C	
6	14	22	
D	D	D	
7 50%	15 C	23 The brown parent is carrying a recessive gene.	
8	16	24	
C	3, TT, Tt, tt	D	