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Incomplete Dominance and Co-Dominance
Practice Problems



Incomplete Dominance

1. Coat color in mice is incompletely dominant. Yellow and white-colored mice are homozygous, while cream-colored mice are heterozygous. If two cream-colored mice mate, what phenotypic ratio can we expect of their offspring? Show the Punnett Square.

2. In radishes, red and white are pure-breeding colors, while hybrids are purple. If a red radish is crossed with a white radish, what will be the phenotypes of the F₂ generation (assuming the F₁ generation self-pollinates)? Show the Punnett Square.

3. In snapdragons, flower color is controlled by incomplete dominance. The two alleles are red (R) and white (W). The heterozygous genotype is expressed as pink.
a) What is the phenotype of a plant with the genotype RR?
b) What is the phenotype of a plant with the genotype WW?
c) What is the phenotype of a plant with the genotype RW?

4. A pink-flowered plant is crossed with a white-flowered plant. Show the Punnett Square. What is the probability of producing a pink-flowered plant? ____%.

5. What cross will produce the most pink-flowered plants? Show a Punnett square to support your answer.

Dihybrid Punnett Square Notes

Dihybrid Crosses: Consider the inheritance of alleles of two genes.

Example: Suppose that in dogs, curly tail (t) is recessive to straight tail (T). In dogs, long hair (h) is also recessive to short hair (H). Suppose a male dog heterozygous for each trait and a curly-tailed, long haired female dog have puppies.

- a. What is the phenotype of the mother? ____Curly Tailed, Long Haired____
- b. What is the genotype of the mother? ____tthh____
- c. What is the phenotype of the father? ____Straight Tailed, Short Haired____
- d. What is the genotype of the father? ____TtHh____
- e. How many **different types** of gametes can be formed by the mother? ____1____
The genotypes of the gametes are: ____curly and long____
- f. How many **different types** of gametes can be formed by the father? ____4____
The genotypes of the gametes are: ___,straight, curly, short, and long
- g. Draw a Punnett square for this mating below. ____tthh____ x ____TtHh____
- h. What is the ratio of the offspring that are curly and short haired? ____4:16 or 1:4____
- i. What is the ratio of the offspring that have the genotype tthh? ____4:16 or 1:4____

	th	th	th	th
TH	TtHh	TtHh	TtHh	TtHh
Th	Ttth	Ttth	Ttth	Ttth
tH	tthH	tthH	tthH	tthH
th	tthh	tthh	tthh	tthh

Example: P₁ - RrYy x RrYy
Both parents are round yellow

Pea seeds: R – round
r – wrinkled

Y - yellow
y - green

	RY	Ry	rY	ry
RY	RRYY	RRYy	RrYY	RrYy
Ry	RRYy	RRyy	RrYy	Rryy
rY	RrYY	RrYy	rrYY	rrYy
ry	RrYy	Rryy	rrYy	rryy

- F₁ Generation's traits
- 1) How many round yellow? ____8____
- 2) How many round green? ____4____
- 3) How many wrinkled yellow? ____3____
- 4) How many wrinkled green? ____1____

Blood Types WS

Name _____

I can:
Determine the probability of blood types of offspring using genotype or phenotype of parents.

Use the information below to answer the following questions.

Human blood types are determined by genes that follow the CODOMINANCE pattern of inheritance. There are two dominant alleles (I^A and I^B) and one recessive allele (i).

Blood Type (Phenotype)	Genotype	Can donate blood to:	Can receive blood from:
O	ii	A,B,AB and O (universal donor)	O
AB	I ^A I ^B	O, AB	A,B,AB and O (universal receiver)
A	I ^A I ^A or I ^A i	AB, A	O,A
B	I ^B I ^B or I ^B i	AB,B	O,B

1. Write the genotype for each person based on the description:

a. Homozygous for the “B” allele _____

b. Heterozygous for the “A” allele _____

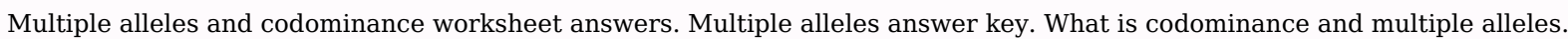
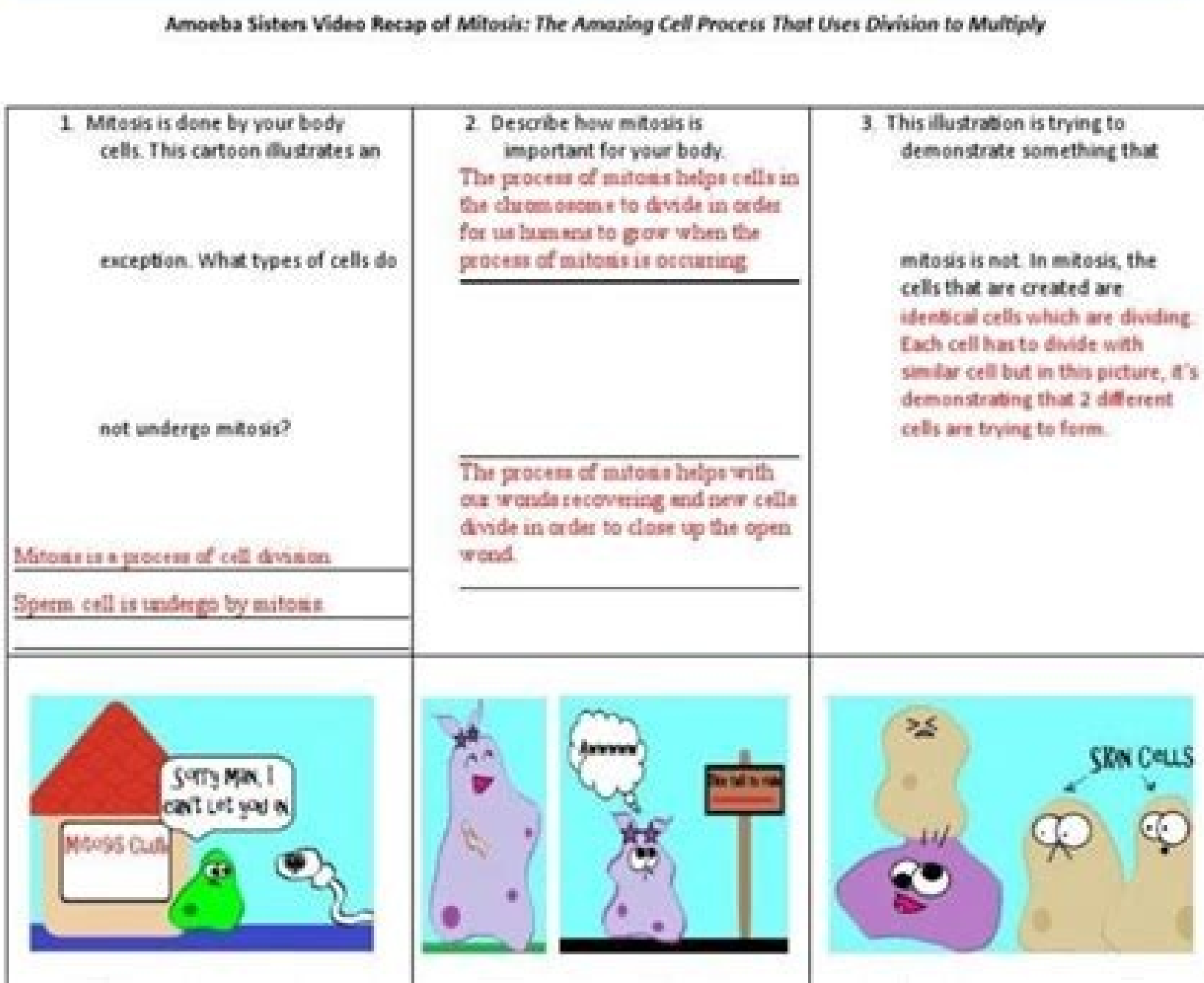
c. Type O _____

d. Type “A” and had a type “O” parent _____

e. Type “AB” _____

f. Blood can be donated to anybody _____

g. Can only get blood from a type “O” donor _____
2. Pretend that dad is homozygous for the type B allele, and mom is type “O.” **What are all the possible blood types of their baby?**
3. Draw a Punnett square showing all the possible blood types for the offspring produced by a type “O” mother and an a type “AB” father



Subject: Digital Literacy and Computer Science (4), Science (4) Title: Using Code to Create Animated Animal Description: Students will use the free online coding program, Scratch, to learn the basics of coding and how to use blocks and animations to create an animated animal. Students will show how an animated animal will receive, process, and respond to information ... An effort made to mitigate the crisis and current circumstances forced by the major spread of the novel corona virus. The Ministry of Education and Higher Education (MEHE), the Center for Educational Research and Development (CERD) as well as public and private school administrations and teachers are all collaborating to provide an effective and impactful ... Check out our incomplete dominance/codominance illustration. Note: We have not created a free handout on this topic, but we offer a resource for purchase on TpT. On TpT. Select topic recap and key: select recap handouts are styled just like our regular free recap handouts, but they tend to cover more detailed/less standard topics. For example, water properties, the endosymbiotic ... blood types multiple alleles and codominance worksheet answers. Perspective; jbm ballistics calculator. java websocket server github . social media strategy pitch deck example. mural paint brands. rochester soccer club summer camp. sh sound words with pictures. All sales support Rio Linda Little League. Best sellers. 6-Cone Classic Fun Pack \$60.00. Add to Cart. 12-Cone ...

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