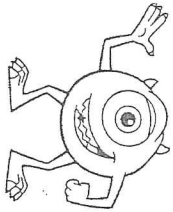
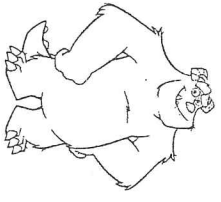


Name _____

Monster Genetics

	Genotype	Phenotype
Mike	Gg	Green body color
	ee	One eye
	CC	Clawed toes
	Ff	Four fingers

	Genotype	Phenotype
Sulley	Pp	Blue & purple body color
	Hh	Horned ears
	bb	Blue eyes
	LL	Long hair

- Which of Mike's traits are heterozygous?

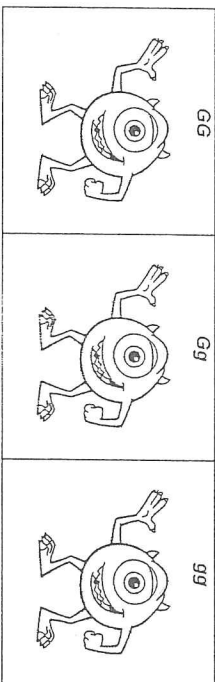
- Which of Mike's traits are homozygous recessive?

- Which of Sulley's traits are homozygous dominant?

Given this information for monsters of Mike's species:

- Ⓐ Green body color [G] is dominant to yellow body color [g].
- Ⓑ Two eyes [E] are dominant to one eye [e].
- Ⓒ Claws on toes [C] are dominant to no claws [c].
- Ⓓ Four fingers [F] are dominant to five fingers [f].

4. Color the monsters with the following genotypes:



5. Draw and color the monsters with the following genotypes:

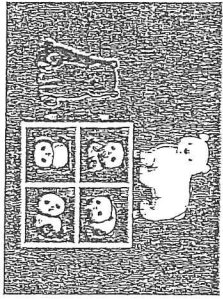
Gg / EE / cc / Ff	gg / ee / Cc / FF

Monsters Genetics Info

In order to answer questions 6 and 7 you need to learn about a new kind of Dominance. It is called:

Co Dominance - In codominance - no trait is dominant, both alleles contribute to the phenotype. The organism will show both features.

For example, if fur color in bears is codominant, a Black Bear and a White Bear will produce Black and White spotted Bears.



For Sulley's species - ONLY THE BODY COLOR is codominant. All the other traits follow the same patterns we have already been studying.

S.5
 What would happen if you crossed a Red flower and a white flower if they are codominant for flower color. _____

Draw it below.

6. Given this information about monsters of Sulley's species:

- 1 Purple body color [P] is co-dominant with blue body color [p].
- 1 Horned ears [H] are dominant to no horns [h].
- 1 Red eyes [R] are dominant to blue eyes [r].
- 1 Long hair [L] is dominant to short hair [l].

For each phenotype for monsters of Sulley's species, list the possible genotype(s):

Phenotype	Genotype(s)
Blue body color	
Purple body color	
Horned ears	
Red eyes	
Long hair	
Short hair	

7. Mike's mother has a genotype of Gg : Ee : Cc : Ff
 Mike's father has a genotype of gg : Ee : Cc : ff
 Draw Mike's parents:

