

- You are a dog breeder. You decide that you want to breed and sell Labrador puppies.
 - You visit a shelter that just happened to have checked the genes of their dogs.

- You have three males and three females to choose from.

- Males: BBEE, bbEe, Bbee
- Females: BbEe, Bbee, bbEE

- Chocolate Labs sell for \$200 per puppy.
- Yellow Labs sell for \$150 per puppy.
- Black Labs sell for \$100 per puppy.
- Which mating pair will be the most profitable?

(Don't worry about the cost of the puppy or other costs – we're only concerned here about which pair would have the most profitable puppies when they're old enough to mate).



BBEE

bbEe

Bbee

Males



BbEe

Bbee

bbEE

Females



B- E-
Black

bb E-
Chocolate

B- ee

bb ee
Yellow

Visit bit.ly/ag-lab-genetics to submit your answer.