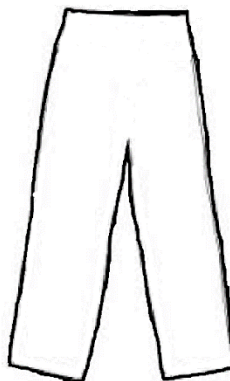
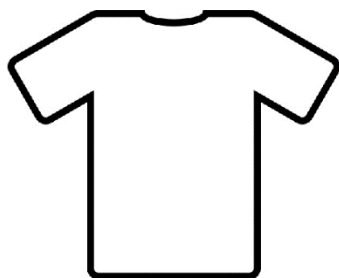




Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

### Wardrobe Combinations

You have a wardrobe that consists of two tops and two bottoms. Since you are a very stylish student, you do not wear two tops or two bottoms at the same time.



**QUESTION: How many different outfits can you create from your wardrobe?**

**CLAIM** - *an answer to the question*

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**EVIDENCE** – *include illustrations of your different outfits*

**REASONING** - background knowledge and science that *supports the claim based on the evidence*

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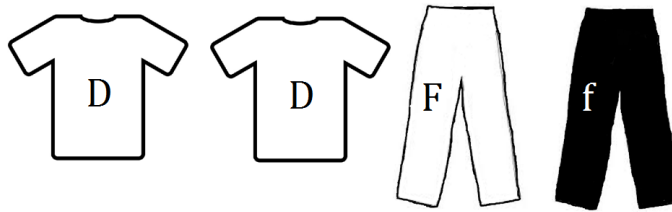
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**Extension: Application of Concept to Genetics**

Facial dimples and free earlobes are both considered dominant human traits. These two traits are located on different chromosomes and separate independent of each other during meiosis. What are the allele combinations possible in the eggs of a female with dimples and free earlobes (DDFf)?



**CLAIM** - an *answer to the question*

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**EVIDENCE** – include illustrations of your different outfits

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**REASONING** - background knowledge and science that *supports the claim based on the evidence*

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