

Topic 3: What Tax is Best?

1. SHIPWRECKED

All Societies Have Limited Goods



Adam



Barbara



Carlo



Dina



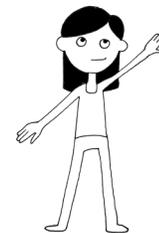
Eden



Federico



Giovanni



Hannah

Pretend you are one of the following eight people shipwrecked on a deserted island (but you don't know which person you are):

Adam, a 6 foot tall overweight 25 year old man.

Barbara, a 25 year old average sized woman who is allergic to peanut butter.

Carlo, a 50 year old average sized man with a broken arm.

Dina, a 50 year old 6 foot tall woman with blue eyes.

Eden, a 32 year old pregnant woman.

Federico, a 45 year old average sized man who does not like peanut butter.

Giovanni, an average sized 75 year old man.

Hannah, a petite sized woman with brown eyes.

There is a very limited amount of food and water—enough to last about a week. You think you'll be rescued by then. So, if you all don't eat too much and are careful, the food should last—you hope. The eight people all have different needs and wants. You can't change how much tuna, peanut butter, water or crackers there are—and as the days roll by, it's clear that more will not wash ashore.

On **Day 2** while out walking, the eight of you discover a coconut grove on the far side of the island.

Adam spends all day gathering coconuts and brings back **12**.

Barbara also spends all day gathering coconuts and brings back **8**.

Carlo works all day but has trouble gathering coconuts due to his broken arm and only brings back **5**.

Dina works all day and brings back **10**.

Eden works all day but has morning sickness all day and only brings back **7**.

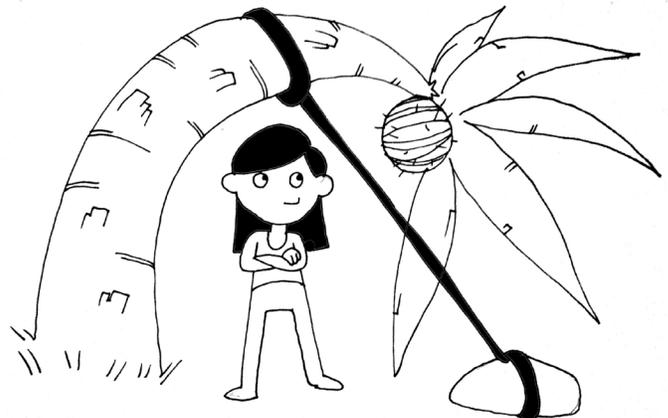
Federico takes **3** hours off to surf and brings back **10**.

Giovanni works all day and brings back **7**.

Hannah works all day and—using a new technique she invents for getting coconuts off the trees—she gathers **14**.

On **Day 3**, **Barbara** finds some bottles of water that have washed ashore. She is willing to trade some of the bottles for cans of tuna, if anyone wants to; otherwise, she is just going to keep the bottles for herself.

By **Day 6**, **Adam**, **Eden** and **Hannah** have all eaten up most of their food. **Barbara** and **Giovanni** have been eating as little as possible (often being a little hungry) in order to make their food last longer.



DILEMMA

There is a very limited amount of food and water (enough to last about a week or so). There are eight (8) people who all have different needs and wants. You can't change how much tuna, peanut butter, water or crackers there are—and as the days roll by, it's very unlikely that more will wash ashore.

TASK

Your task is to figure out a fair way to distribute all the food and water among the 8 people. Since people disagree about what is fair, there is no one right answer.

1. On **Day 1**, how should the eight people divide the tuna, peanut butter and crackers that washed ashore?
2. On **Day 2**, how should all the coconuts be divided? Does everyone get to keep the coconuts s/he gathered or should they be divided up among all eight? If the coconuts should be divided, how should they be divided?
3. Do you think **Barbara's** decision on **Day 3 about the water is fair?**
4. On **Day 6**, Should **Barbara** and **Giovanni** give any of their food to **Adam, Eden,** and/or **Hannah?**

