

## *“Do a load of laundry”*

### **Step 1: Rephrase the question to focus on the problem.**

“Do a load of laundry” could be rephrase to “do a load of laundry because you’re running out of clothes” to focus on a specific problem, have a better on context, and the how urgent it is.

### **Step 2: what do I need to know to solve the problem.**

Once you have rephrased the statement, identify the levels of transaction, and what information we need to collect.

The level of transaction here would the clothes, the information that we need to collect include:

- a. What material are the clothes?
- b. What color are the clothes?
- c. What temperature should the clothes be washed at?
- d. What temperature should the clothes be dried at?
- e. What spin setting should the washing machine be set to?
- f. What kind of clothes is it? Is it work clothes?
- g. Do the clothes have stains?
- h. How old are the clothes? 0-5 years or 5 years plus
- i. How much does it cost to dry-wash the clothes?
- j. How long does it take to dry-wash the clothes?
- k. How long does it take to wash the clothes?
- l. How long does it take to dry the clothes?
- m. Where are you going to dry-wash the clothes?
- n. Where are you going to machine wash the clothes?

### **Step 3: Look for the data and Step 4: Organize the data.**

**Material** Cotton, Linen, Wool

**Color of Clothes** Black, Gray, White, Navy, Blue, Beige

**Dry Wash Status** None

**Washing Temperature** 30-40°C, 20-30°C

**Spin Cycle** Cotton Spin, Gentle Spin, Delicate Spin

**Drying Temperature** 40-60°C, 20-30°C, Air Dry

**Type of Clothes** Work and Everyday Clothes

**Stains on Clothes** Yes

**Age of Clothes** 0-5 Years

**Location of Washing Machine** At Home

**Step 5: Identify the relationship.**

1. Cotton and linen can be machine washed together at 30-40 Celsius with gentle spin
2. Wool need to be machine washed at 20-30 Celsius with delicate spin
3. Cotton and linen can be machine dried together at 20-30 Celsius
4. Wool need to be machine dried at air dry
5. Wool clothes are in black, and navy therefore could be grouped together
6. Cotton clothes have all five colors therefore should be separated into 3, dark (black, navy) and light (gray, beige), then white
7. Linen clothes are white therefore can be washed with the white cotton badge

**Step 6: Find a solution.**

We should have 4 different bags ready even before we start sorting. 1<sup>st</sup> for black and navy cotton clothes, 2<sup>nd</sup> for light gray and beige clothes, 3<sup>rd</sup> for white cotton clothes and linen clothes, 4<sup>th</sup> for black and navy wool clothes. We will need to use the washing machines 4 times, first for 1<sup>st</sup> bag of clothes then again for the 2<sup>nd</sup> then the 3<sup>rd</sup> bag all using 30-40 Celsius water and gentle spin then then after that the 4<sup>th</sup> bag need to be washed at 20-30 Celsius water and delicate spin. After that 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> can be dried together at 20-30 Celsius until dry and wool need to be air dried.