

Probably not the dumbest presentation this Year

Material Master Exercise

FOR
DUMMIES[®]

Limited Edition for – Material-Masters

A Reference
for the
Rest of us![®]



OBJECTIVE

Give 1 PERSON or a 100 PEOPLE the same item to describe and have everyone describe it identically

Characteristics and permutations

Red Fast Car

Fast Red Car

Car Fast Red

Red Car Fast

Fast Car Red

Car Red Fast



$${}^n P_r = \frac{n!}{(n-r)!}$$

MATHEMATICS

WHY AIM FOR SUCCESS ?

THE ODDS OF FAILURE ARE SO MUCH BETTER?

Crazy Variables

A Material Master short description is often limited to just 40 characters

Variables	Permutations
0	1
1	1
2	2
3	6
4	24
5	120
6	720
7	5,040
8	40,320
9	362,880
10	3,628,800
11	39,916,800
12	479,001,600
13	6,227,020,800
14	87,178,291,200

- How many permutations are there?
 - 40 spaces
 - 50 available characters (letters, Numbers and punctuation)
- Or to put it another way
 - If each permutation was an electron what would be the total mass of all the permutations?
 - A. Eiffel Tower
 - B. Moon
 - C. Earth
 - D. Jupiter



The Answer

$${}^n P_r = \frac{n!}{(n-r)!} = \frac{50!}{(50-40)!}$$

$${}^n P_r = 8.381 \times 10^{57}$$

x Mass of an electron 9.1×10^{-31} KG

$$\text{Mass} = 7.626 \times 10^{27} \text{ KG}$$

Mass of Jupiter circa 2×10^{27}

$\triangle 3.8$ times



Is free text
the answer?



Simple Exercise

Using only the information provided on the next slide
Create a 40 Character material master description

Remember all the information needs to fit into 40 characters

Remember a description should have a noun a modifier and characteristics

Do not spend more than 5 minutes

And yes spaces count in the 40 characters

Write your answer down
Check it has all the information from the screen
Then move on to the next slide



Conveyor

236mm wide

Polyurethane

Endless

40mm thick

Belt

64 Metres Long



Are you sure?

The next slide has some sample answers

Compare your version to the ones on the next slide



Sample Results from the Exercise

- BELT,CONVEYOR:POLY,236X40MM,64M L,ENDLES
 - CONVEYOR BELT,64Mx236MMx40MM,POLY,ENDLES
 - Belt:CNVY,Eless,PolyU,236mm/W,44mm/T;64
 - BELT,CNVYR:ENDLS,PUR,64M L,236MM WD,40MM
-
- Did you have the colour on your description?

BELT,CONV:ENDLS,40X236MM,64M,PU,GREEN

BELT,CONV:ENDLS,40X236MM,64M,PU,GREEN

- NOUN : **BELT**
- MODIFIER : **CONVEYOR**
- TYPE : **ENDLESS**
- SIZE : **40 X 236 MM**
- LENGTH : **64 M**
- MATERIAL : **POLYURETHANE**
- COLOR : **GREEN**



- *The number of permutations in a single 40 character short description are incredible*
- *Holding the values against attributes and then building a description automatically applying abbreviations is the way towards standardisation and quality*

What are the factors for failure?

- Templates
 - Nouns
 - Modifiers
 - Characteristics
 - Preference
 - Order
 - Case
 - Separators
 - Abbreviations
 - Units of Measure
 - Dimensions
 - Spelling
 - Simplicity
 - Repeatability / Consistency

The screenshot shows a software interface for generating a short description. It is divided into several sections:

- Noun / Modifier:** Contains two dropdown menus. The first is labeled 'Noun' and has a 'List' button next to it, with 'BELT' selected. The second is labeled 'Modifier' and has 'CONVEYOR' selected. Both dropdowns have a 'Select' button.
- Material Group:** A blue header bar with a white input field below it.
- Attributes:** A table with five rows, each with a red label and a corresponding input field:

WIDTH	236	mm
THICKNESS	40	mm
MATERIAL	Please Select...	
TYPE	Please Select...	
LENGTH		mm
- Output Short Description:** A text box containing the generated description: 'BELT;CONVEYOR;236x40MM'. To the right of the text box, it says 'Characters : 24'. Below the text box is a 'Preview Description' button.

All of these need to be set agreed and locked down before a data cleansing project can begin

Conclusion

- There is not always a right or wrong answer.
- A combination of systems, process, Taxonomy, nomenclature, good people and clear guidelines
- Patience, time, effort and the realisation that it's a journey towards consistency and quality.

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