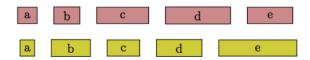


## Machine planning - Worksheet

## **Problem**

Five products a, b, c, d, e has to be processed on two machines  $M_1$  and  $M_2$ . The processing time for each product on each machine is given. It is important that each product is first processed on machine  $M_1$  and then on machine  $M_2$ . As an example, we consider the production of a chocolate bar: on machine  $M_1$  the melted chocolate is deposited into bars and on machine  $M_2$  the chocolate bars are packed.

For which order of the products the total processing time – the interval between the time when the first product starts on machine  $M_1$  and the time when the last products leaves machine  $M_2$  – is the shortest? Describe your ideas and strategies!



The mascil project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 320 693

