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**Matrix**

# Exercise 1

> M <- matrix(c(1:10),nrow=5,ncol=2, dimnames=list(c("a","b","c","d","e"),c("A","B")))

What is the value of M? (First write down your answer, without using R. Then, check your answer using R.)

*•*

M A B

a 1 6

b 2 7

c 3 8

d 4 9

e 5 10

A close up of a clock

Description automatically generated

* Write a R statement to get the maximum of each column.

# apply(M,2,max)

# Exercise 2

Create three vectors x,y,z with integers and each vector has 3 elements. Combine the three vectors to become a 3 *∗* 3 matrix A where each column represents a vector. Change the row names to a,b,c.

x = 1:3

y = 4:6

z = 7:9

A = cbind(x,y,z)

rownames(A) = c("a", "b", "c")