My Favourite Problem

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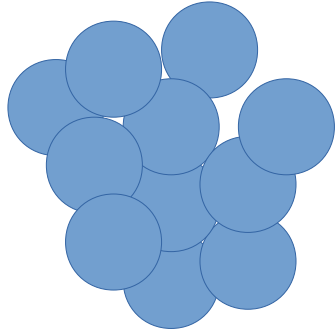ELHP

ELHP

We have a logo!

This is a semi-chestnut.
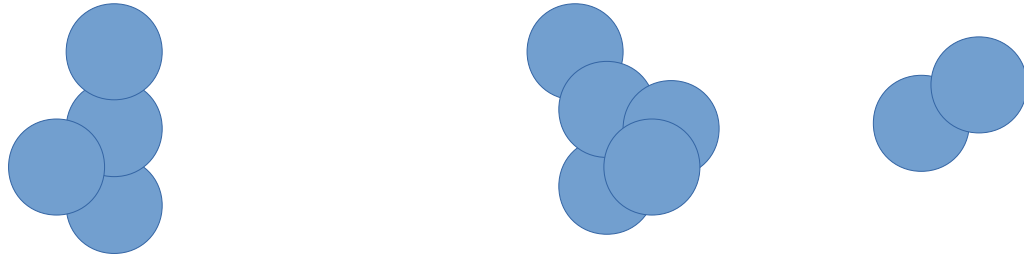
Perhaps you can help it become a chestnut!
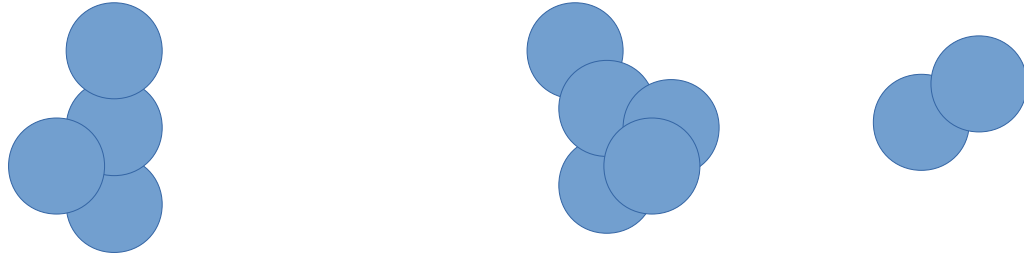
I give you a heap of *n* tokens

n is a positive integer

You divide it into sub-heaps

As many as you like, any positive integer sizes you like.

I multiply the sizes of the sub-heaps and pay you that many Euros.

4 x 5 x 2 = 40

How do you maximise your reward for all positive *n*?

The ribbon problem

I give you *n* metres of ribbon. *n* may or may not be an integer.

The ribbon problem

You cut it into pieces as you wish. The number of pieces should be a positive integer.

The ribbon problem

I multiply the lengths together and pay you that many Euros.

The ribbon problem

How do you maximise your reward for all positive *n*?