

or **C** win.

The probability that

C wins is half the

combined

probability that **D** or

E win.

Runners **B**, **F** and **A**

have a combined

probability equal to

that of certainty.

Runner **F** has a

probability of

winning that is $1/_3$

that of runner **A**.

Only one runner has

a chance of winning greater than $^{2}/_{3}$.

EXTENSION

Two runners have

an equal but not

very good chance of

winning.

The chance that C

wins is less likely

than two other

runners.

Runner **A** is three

times more likely to

win than runner **B**.

Runners A and C

have a combined

probability of 1.

What is the smallest number of cards that you need to solve the problem? Which cards do you need?

The probability that

D wins is half that

of each of two other

runners.

The least likely

winner has a

probability 0.6

smaller than the

most likely winner.

Each runner's

probability of

winning is a multiple

of 0.1.