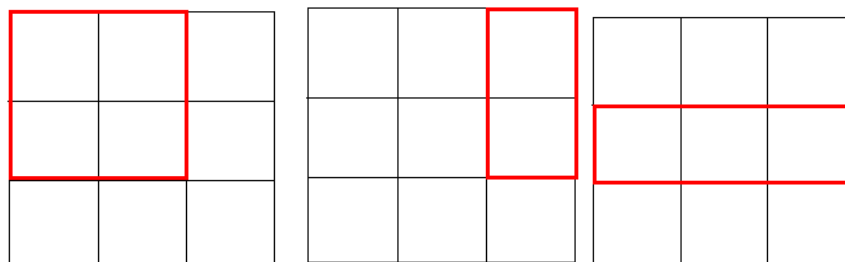


Suppose we have a 3 by 3 chess board instead of an 8 by 8 –
which rectangles can we make?

(Squares are included as a special kind of rectangle.)

So for example we can include:



a) How many rectangles can we make in total? [6 marks]

b) What about for a 2 by 2 board? [2 marks]

c) For a 1 by 1? [1 mark]

d) For a 4 by 4? [2 marks]

e) For a 5 by 5? [2 marks]

f) Can you come up with a general rule for the total number of possible rectangles
for an n by n board? [7 marks]