



- 15. The figure shown alongside is made from seven small squares. Some of these squares are to be shaded so that:
 - (i) at least two squares are shaded;
 - (ii) two squares meeting along an edge or at a corner are not both shaded.

How many ways are there to do this?



A 4

B 8

C 10

D 14

E 18

1485



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15. C

Α		
В	C	D
Е	F	G

Label the squares as shown. Possible pairs to be shaded which include A are AD, AE, AF and AG. Pairs excluding A are BD, BG, DE, EG. Triples must include A and there are two possibilities, ADE and AEG. This gives 10 ways of shading the grid,