

Dice combinations III

This task is about finding all the possible combinations of outcomes for throwing two dice.



a) When two dice are thrown there are 36 different combinations of numbers possible on the top faces of the two dice. Complete these tables, giving all the possible combinations when two dice are thrown.

Number on First Dice	Number on Second Dice	Number on First Dice	Number on Second Dice	Number on First Dice	Number on Second Dice
1	1	3		5	
1	2	3		5	
1	3	3		5	
1		3		5	
1		3		5	
1		3		5	
2		4		6	
2		4		6	
2		4		6	
2		4		6	
2		4		6	
2		4		6	

b) Using the table, list all the combinations that add up to a total of 8.

i) ___ and ___

ii) ___ and ___

iii) ___ and ___

iv) ___ and ___

v) ___ and ___

c) List all the combinations that add up to a total of 11.

i) ___ and ___

ii) ___ and ___

d) Two dice are thrown. What is the **probability** that the combination adds up to a total of 8 **or** 11? _____