

- 12 Ryan has to choose one student at random from a group of 11 students. Ryan makes the choice using a single throw of two fair, six-sided dice, together with the following table.

Total score on the two dice	2	3	4	5	6	7	8	9	10	11	12
Student chosen	A	B	C	D	E	F	G	H	I	J	K

- (a) Show that this sampling method is **not** random. [2]

Sasha suggests making the choice using a single throw of two fair, six-sided dice, together with the following table.

Scores on the two dice	1, 1	1, 2	2, 1	1, 3	3, 1	1, 4	4, 1	1, 5	5, 1	1, 6	6, 1
Student chosen	A	B	C	D	E	F	G	H	I	J	K

**Ryan says that a further instruction is needed to complete the method.**

- (b) (i) Write a suitable further instruction. [1]

- (ii) Using Sasha's method, state the probability of choosing student E. [1]