PROBABILITY: EXPECTED VALUE [PIRNOT 13.4]

<u>EX 13.4.1</u> Given the following table of the probabilities & values associated with the four outcomes of an experiment:

OUTCOME	PROBABILITY	VALUE
A	0.25	7
В	0.10	-3
C	0.35	2
D	0.30	-2

Compute the expected value for the experiment.

<u>EX 13.4.2</u> You pay \$1.00 to play a game in which a pair of fair dice are rolled.

If the dice total six or twelve, you win \$4.00.

If the dice total between six or twelve exclusive, you win \$2.00.

Otherwise, you lose the dollar you paid to play the game.

(a) Compute the expected value for the game.

(b) Compute the price of the game to make the game fair.