

**25** There are 12 marbles in bag *A* and 15 marbles in bag *B*.

In bag *A*, there are 7 yellow marbles and 5 red marbles.

In bag *B*, there are 10 yellow marbles and 5 red marbles.

Eugene takes at random **one** marble from bag *A* and without looking at the marble puts the marble into bag *B*.

Eugene then takes at random **one** marble from bag *A* and takes at random **two** marbles from bag *B*. He places the **three** marbles on a table.

Calculate the probability that the **three** marbles on the table all have the same colour.

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

**(Question 25 continued)**

**(Total for Question 25 is 5 marks)**



P 6 6 2 9 3 A 0 2 1 2 8