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MX 2 A bag contains 4 white, 4 red and 4 black marbles. Kim takes some marbles out of the
SQ bag without looking at them and places them on the table.
What is the smallest number of marbles that must be taken from the bag in order that at least three marble of the same colour are on the table?
A. 3
B. 5
C. 7
D. 9

C
It is possible to draw 6 marbles and still not have 3 matching marbles: 2 white, 2 red and 2 black. Another marble needs to be drawn to ensure 3 of the same colour. As $2+2+2+1=7$, there needs to be 7 marbles taken.

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[^0]:    * These solutions have been provided by projectmaths and are not supplied or endorsed by NESA.

