Charity Fair

LUCKY DIP
25¢ A CHANCE
3 balls the same color
WIN $5

Ann is in charge of a **Lucky Dip** to raise money for charities.

Each barrel contains an equal number of red, green, white and black balls.

The balls are buried in sawdust so that you cannot see them before you pick one out.

To play the game, you give Ann your 25¢, then you pick one ball from each barrel.

You win $5 if all three balls are the same color.

1. Calculate the probability that you will win the $5 if you play once.

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2. Do you think that the **Lucky Dip** will raise money for the local charities?

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Show your calculations.

3. Ann wants to change the game so as to increase the amount of money it makes for the charities.

Describe two different kinds of change that she could make to the **Lucky Dip** and find how much is likely to be raised for the charities after each change.
Show all your calculations.

Change one

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Change two

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