

Marble bag

This task is about the chance of something happening.

Ben's favourite colour is **red**.

Tamati's favourite colour is **green**.

Sarah's favourite colour is **yellow**.

Mia's favourite colour is **blue**.

Use the information about favourite colours above to answer the question.

- a. A bag has 3 red, 5 green, 6 yellow, and 4 blue marbles in it. If one marble is picked out, who has the best chance of this marble being their favourite colour?

☐ Ben

☐ Tamati

☐ Sarah

☐ Mia

☐ They all have the same chance

- b. Another bag has 4 red, 4 green, 4 yellow, and 4 blue marbles in it. If one marble is picked out, who has the best chance of this marble being their favourite colour?

☐ Ben

☐ Tamati

☐ Sarah

☐ Mia

☐ They all have the same chance

c. Another bag has 3 red, 6 green, 3 yellow, and 6 blue marbles in it. If one marble is picked out, who has the best chance of this marble being their favourite colour?

- ☐ Ben
- ☐ Ben and Sarah have the same chance
- ☐ Tamati
- ☐ Tamati and Mia have the same chance
- ☐ They all have the same chance

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