

9A Construct sample spaces using lists, tree diagrams, and combinations

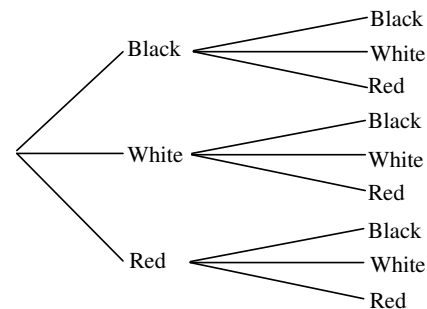
1. Juan is buying a new bicycle. He can choose from 3 different colors, 4 different seat designs, and 5 different handlebars. How many difference combinations could he choose?

A 60
B 23
C 17
D 12

2. Janelle can choose from 2 pairs of shoes, 3 pairs of pants, and 5 shirts. How many different outfits could she create?

A 30
B 20
C 17
D 10

3. Miguel has a bag containing red, white, and black marbles. If she draws out 2 marbles, according to the diagram below, how many different outcomes exist?



A 3
B 6
C 9
D 12

4. If a coin is tossed twice, which lists all the possible outcomes?

A (HT, TH, TH, HT)
B (TT, HH)
C (HH, HT, TH, TT)
D (HTHT)