

Section 11.2 Extra Practice

1. You flip a nickel, a dime, and a quarter.
 - a) Use a tree diagram to show the number of possible outcomes.

 - b) Use multiplying to show the number of possible outcomes.

2. Carlos was in charge of purchasing baseball hats for the team.
 - He can get them in three colours: blue, green, and black.
 - The green and blue hats come in fitted and one-size-fits-all, and in both washable and non-washable versions.
 - Black hats come in only fitted and non-washable styles.How many hat choices does Carlos have? Show your thinking.

3. At a restaurant, if you order one appetizer, one main course, and one dessert, you have 72 different meal combinations to choose from. There are three choices of desserts and four choices of main courses. How many choices of appetizers are there? Show your thinking.

4. Make up a situation that would give the following number of combinations:
 $7 \times 3 \times 2 = 42$ combinations.

5. Hana won the grand prize trip, but she has some choices to make.
 - She can go to Paris, London, or Rome.
 - She can go for a week in winter, in spring, or in summer.
 - Hana may take her sister or her friend with her, or take nobody and receive an extra \$4500 to spend instead.How many trip options does Hana have? Show your thinking.