A Checking

5. Use the tree diagram you made in step A on page 408 to calculate each theoretical probability.

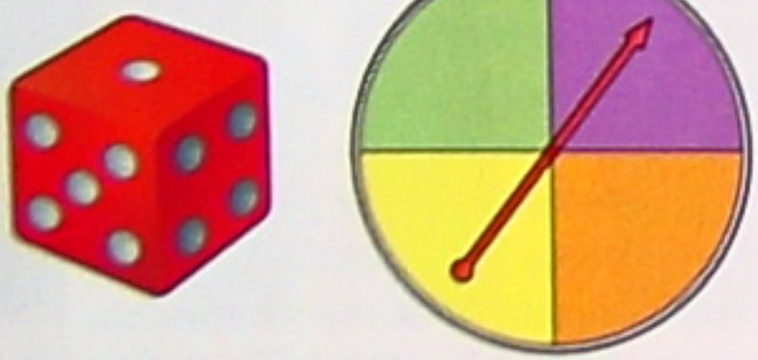
a) *P*(Rowyn beside Rishi)

b) *P*(Rowyn not beside Rishi)

c) *P*(either Rowyn or Carina, but not both, on the outside)

B Practising

6. Suppose that you roll the die and spin the spinner.



Use an organized list to determine the probability of each event.

a) *P*(3 and yellow)

b) *P*(anything except 3 and yellow)

c) *P*(number > 3 and purple)

7. a) Create a tree diagram to show all the possible outcomes for tossing three coins.

b) What is the probability of getting one Tail?

10. Kaycee has won a contest. To determine the amount of her prize, she must spin this spinner twice. She will receive the sum of her two spins.

a) Create a tree diagram to show all the possible outcomes.

b) What is the probability that Kaycee will receive more than the minimum amount but less than the maximum amount?

c) What is the probability that Kaycee will receive more than $500?

11. Anthony, Peter, Francis, and Christopher are in a race. The first three to finish will receive ribbons. Which is more probable—that both Anthony and Peter will receive ribbons, or that Peter will finish ahead of Francis and Christopher?

C Extending

12. Deanna and Carol are playing a game. They roll a die twice and add the numbers they roll. A sum of 5 scores a point.

a) What is the probability of rolling a sum of 5?

b) Deanna rolled a sum of 5 on her first