

# 5.20 - Questions Handout #s 3 - 13

## Check Your Understanding

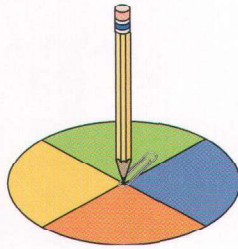
### Practise

3. List all the possible outcomes for each situation.

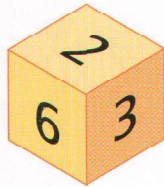
a) Toss a coin.



b) Spin the spinner.

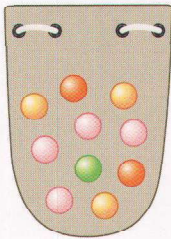


c) Roll a number cube.

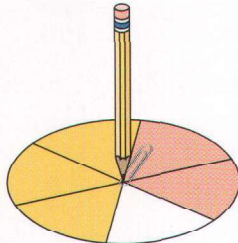


4. List all the possible outcomes for each situation.

a) Pick a marble out of a bag.



b) Spin the spinner.

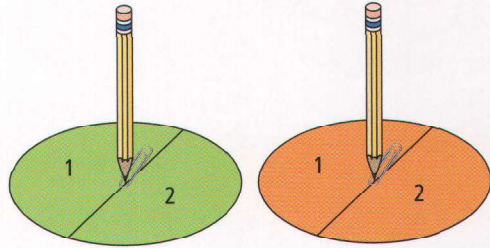


c) Pick a coin out of a piggy bank.

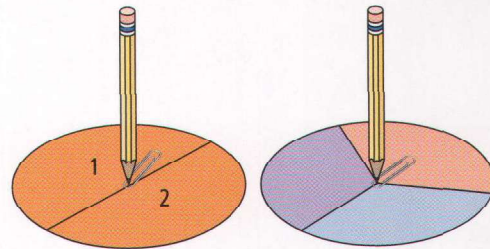


For help with questions 5 to 10, refer to the Example.

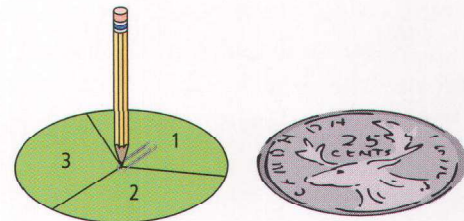
5. Draw a table or tree diagram to show all the possible outcomes for spinning both spinners.



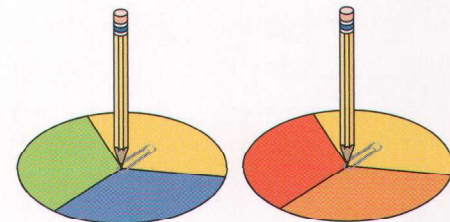
6. Draw a tree diagram to show all the possible outcomes for spinning both spinners.



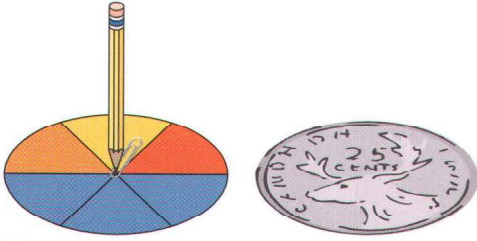
7. Use an organizer to show all the possible outcomes for spinning the spinner and tossing the coin.



8. Use an organizer to show all the possible outcomes for spinning both spinners.

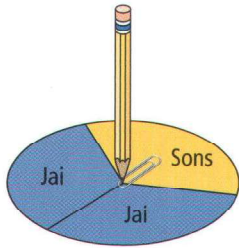


9. a) Create an organizer to show all the possible outcomes for the spinner and the coin.



- b) What is the predicted probability of spinning yellow and getting tails?  
 c) What is the predicted probability of spinning blue and getting heads?

10. Jai and her two sons spin a spinner to decide which television show to watch. Jai chooses if her name is spun twice in two spins. Otherwise, her sons choose.



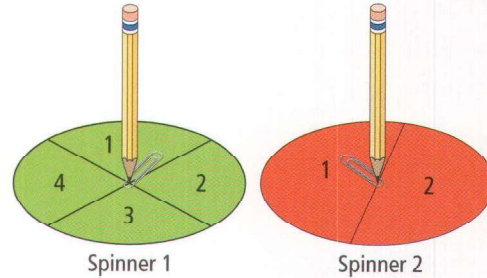
- a) Create an organizer to show all the possible outcomes for spinning the spinner twice.  
 b) What is the predicted probability of Jai choosing the show?  
 c) What is the predicted probability of her sons choosing the show?

### Apply

11. Two pairs compared their experimental probabilities for Rock, Paper, Scissors. Their results were different. Explain why experimental probabilities are not always the same.

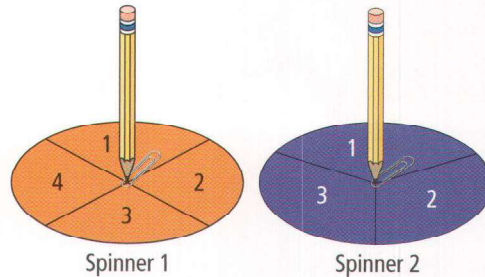
### Chapter Problem

12. A version of *Into the Pond* uses the sum of two spinners.



- a) What are the possible sums when you add the results from these two spinners?  
 b) What is the predicted probability of getting each sum?

13. Two spinners are numbered as shown.



- a) Draw a tree diagram to show all the possible outcomes for spinning both spinners.  
 b) Find the product of each outcome in your tree diagram.  
 c) What is the predicted probability of spinning a product of 1?  
 d) What is the predicted probability of spinning a product of 4?  
 e) What is the predicted probability of spinning a product that is an even number?

### Literacy Connections

To find the product of each outcome, multiply the results from the spinners.