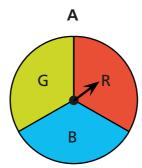


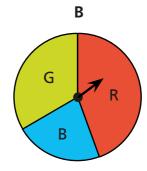
Generate sample spaces for single events

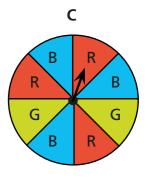
Write the sample spaces for the events. a) rolling a standard six-sided dice b) tossing a fair coin Dexter and Alex have written the sample space for this spinner. {1, 1, 2, 2, 3, 3} $S = \{1, 2, 3\}$ Who is correct? _____ Explain your answer.

Discuss your answer with a partner.

| 3 | Dani spins these spinners. |
|---|----------------------------|
| | Dain spins these spinners. |
| | |







| a) | What is the same | and what is | different | about the | spinners? |
|----|------------------|-------------|-----------|-----------|-----------|
|----|------------------|-------------|-----------|-----------|-----------|

b) Write the sample spaces of the outcomes for each spinner.

A S = {_____}

B S = {_____

C S = {_______

c) What is the same about the sample spaces for each spinner?

| 4 | These letters are put into a hat. | |
|---|---|--|
| | B E E K E E P E R | |
| | | |
| | A letter is chosen at random. | |
| | Write the sample space for the outcomes. | |
| | S = {} | |
| | | |
| 5 | a) Here are some number cards. | |
| | | |
| | | |
| | A card is chosen at random. | |
| | The sample space for the outcomes is $S = \{2, 4, 6, 8, 10\}$. | |
| | What is the value of each card? Write the numbers on the cards. | |
| | | |
| Г | b) Here are some more number cards. | |
| | | |
| | | |
| | A card is chosen at random. | |
| | The sample space for the outcomes is $S = \{2, 4, 6, 8, 10\}$. | |
| | What could the cards be? Write the numbers on the cards. | |
| | | |
| 6 | A card is removed from the pack, and a piece of fruit is removed from the bowl. | |
| | Describe the sample spaces to a partner. | |
| | a) b) | |
| | | |

| Co | mpare your sample space with a partner's. |
|----|--|
| Th | e sample space for an event is {green, red}. |
| a) | What could this event be? |
| b) | Explain why the probability of the outcomes might not be equally likely. |
| | |
| So | me cards are labelled with numbers. |
| | card is chosen at random. |
| Th | e sample space of an event is S = {3, 5, 7, 9}. |
| | ork out the probabilities. |
| W | The probability of getting an odd number is |
| | |
| a) | The probability of getting an even number is |



