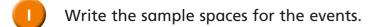


Generate sample spaces for single events



a) rolling a standard six-sided dice



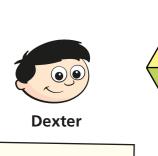
S = { 1, 2, 3, 4, 5 6

b) tossing a fair coin

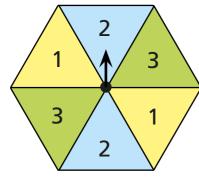


S = { Heads, Tails }

2 Dexter and Alex have written the sample space for this spinner.



{1, 1, 2, 2, 3, 3}





 $S = \{1, 2, 3\}$

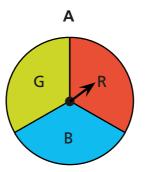
Who is correct? Alex

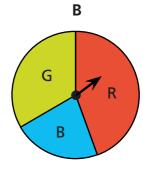
Explain your answer.

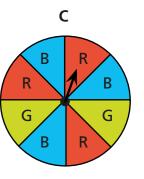
You only need to write each number once is a sample space.

Discuss your answer with a partner.









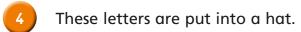
a) What is the same and what is different about the spinners?

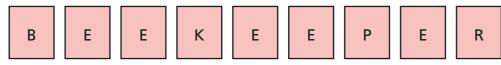
Same: they show the same calours.

Different: the amount of the spinner that is
covered by each colour.

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

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



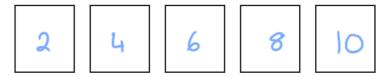


A letter is chosen at random.

Write the sample space for the outcomes.

$$S = \{ B, E, K, P, R \}$$

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.

b) Here are some more number cards. e.g.



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.

A card is removed from the pack, and a piece of fruit is removed from the bowl.

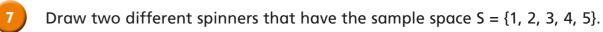
Describe the sample spaces to a partner.

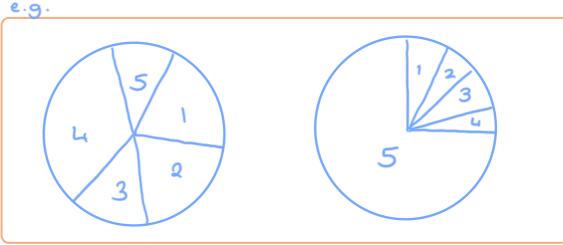
a)



b)







Compare your sample space with a partner's.

- The 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.

There	could	be	9	0000	and	red	
				0			

Some cards are labelled with numbers.

A card is chosen at random.

The sample space of an event is $S = \{3, 5, 7, 9\}$.

Work out the probabilities.

- a) The probability of getting an odd number is ______
- b) The probability of getting an even number is __impossible___
- c) Explain to a partner why you cannot work out the probability of getting a number greater than 6

