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

$\qquad$
\}
$\qquad$

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


Who is correct? $\qquad$
Explain your answer.
$\qquad$
$\qquad$
Discuss your answer with a partner.
(3)

Dani spins these spinners.

a) What is the same and what is different about the spinners?
$\qquad$
$\qquad$
b) Write the sample spaces of the outcomes for each spinner.
$\qquad$ -
$B S=\{$ $\qquad$ -\}
$C S=\{$ $\qquad$ -\}
c) What is the same about the sample spaces for each spinner?

These letters are put into a hat.


A letter is chosen at random.
Write the sample space for the outcomes.
$\qquad$
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.
$\square$
$\square$
$\square$


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)


Draw two different spinners that have the sample space $S=\{1,2,3,4,5\}$.
$\square$
Compare your sample space with a partner's.

8 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
9) 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 $\qquad$
b) The probability of getting an even number is $\qquad$
c) Explain to a partner why you cannot work out the probability of getting a number greater than 6
$\qquad$
$\qquad$

