## **Card Game** Mrs Jakeman is teaching her class about probability. She has ten cards, numbered 1 to 10, which she mixes up and stands on a shelf turned so that the numbers do not show. Mrs Jakeman turns the cards round on at a time. The class has to guess whether the next card will have a higher number than the last one turned or a lower number. The first card turned is the 3. 1. Would you expect the next number to be higher than 3 or lower? Explain why you made this decision. The next card is number 10. 2. What is the probability that the next card will be a higher number? . Explain how you know.

The next card is number 4.	3 10 4 34 34 34 34	\$
3. What is the probability that the next number	er is higher?	
Show your work.		
The next card is number 7.	3 10 4 7	
4. What is the probability that the next numb	er is lower?	
Show your work.		•••••
The fifth card is the 1.	3 10 4 7 1	
When the sixth card is turned the probability probability that it is lower.	that the following one is higher i	s the same as the
5. What must the sixth card be?		
Explain how you worked it out.		
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