This problem gives you the chance to:

· figure out and explain probabilities

T1

Mrs Jakeman is teaching her class about probability.

She has ten cards, numbered 1 to 10.

She mixes them up and stands them on a shelf so that the numbers do not show.



Mrs. Jakeman turns the cards around one at a time.

Students have to guess whether the next card will have a higher or a lower number than the one just turned.

The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

Explain why you made this decision.

Thelieve it is going to be higher because there are only 2 digits behind three and

The second card is number 10.

3 10

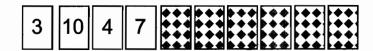
2. What is the probability that the next card will be a higher number than 10?

0%

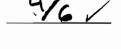
Explain how you know.

because there are not higher digits then to in the cards.

The fourth card is number 7.



4. What is the probability that the next number is lower than 7? Show your work.



x2345698910 (

The fifth card is the number 1.

	3	10	4	7	1	1
L						1

When the sixth card is turned the probability that the next card is higher is the same as the probability that it is lower.

5. What must the sixth card be?

Explain how you figured it out.

E, or 9 because first there is a humber below 5 and then higher then five and so on 0 so the next number will be above 5.



T2

This problem gives you the chance to:

• figure out and explain probabilities

Mrs Jakeman is teaching her class about probability.

She has ten cards, numbered 1 to 10.

She mixes them up and stands them on a shelf so that the numbers do not show.



Mrs. Jakeman turns the cards around one at a time.

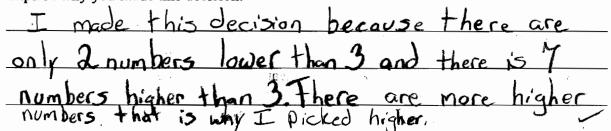
Students have to guess whether the next card will have a higher or a lower number than the one just turned.

The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

Explain why you made this decision.



The second card is number 10.

3	10		
		^	/

2. What is the probability that the next card will be a higher number than 10?

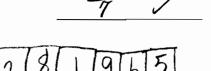
Explain how you know.

numbers & it only goes to 10 so there can't be a higher number than 10.

The	third	card	is	number	4
1110	umu	caru	13	Hullioti	7

	4		
3 10	4	• • • • • • • • • • • • • • • • • • •	
A			

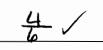
3. What is the probability that the next number is higher than 4? Show your work.



The fourth card is number 7.



4. What is the probability that the next number is lower than 7? Show your work.

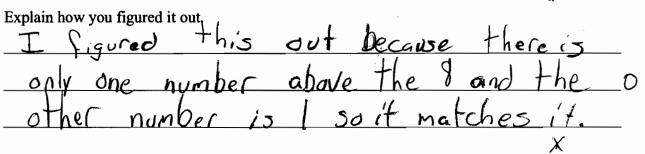


The fifth card is the number 1.



When the sixth card is turned the probability that the next card is higher is the same as the probability that it is lower.

5. What must the sixth card be?





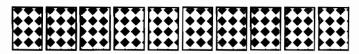
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She has ten cards, numbered 1 to 10.

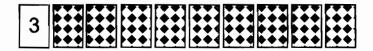
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Students have to guess whether the next card will have a higher or a lower number than the one just turned.

The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

Explain why you made this decision.

The second card is number 10.

2. What is the probability that the next card will be a higher number than 10?

Explain how you know.

are no numbers over 10 with card

The	third	card	is	number	4
1110	\mathbf{u}	caru	12	number	╼.

					I .	4
3	10	4				

3.	What is the probability	that the next number i	s higher than 4?
	Show your work.	714	

71	%	

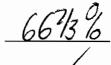
75.00



The fourth card is number 7.

3	10	4	7						
---	----	---	---	--	--	--	--	--	--

4. What is the probability that the next number is lower than 7? Show your work.



6 4.00 360

The fifth card is the number 1.

ı								
	3	10	4	7	1			

When the sixth card is turned the probability that the next card is higher is the same as the probability that it is lower.

5. What must the sixth card be?

X2345 @78910

_6'

I lined the numbers up from 1-10, crossed out
the numbers that were already used, and took
the middle number.

This problem gives you the chance to:

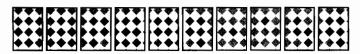
· figure out and explain probabilities

T4

Mrs Jakeman is teaching her class about probability.

She has ten cards, numbered 1 to 10.

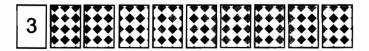
She mixes them up and stands them on a shelf so that the numbers do not show.



Mrs. Jakeman turns the cards around one at a time.

Students have to guess whether the next card will have a higher or a lower number than the one just turned.

The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

Higher

Explain why you made this decision.

because 3 is a low number

and Its at the begining so the

The second card is number 10.

3 10

2. What is the probability that the next card will be a higher number than 10?

6/

Explain how you know.

There is only 10 cords + the highest number is 10 so there

can't be anymore numbers Higher

The	third	card	18	num	ber	4.

										4
	10			XXX			₹ ₩₩	44		•
3	10	4	***	***		**	**	**	**	
	i	igsquare	**4	* * 4	*	++	* * *	*	•	

3.	What is the probability that the next number is higher than 4?
	Charry warm wards

5/7.

count the non flipped ones for the denominator and the ones left above 4 for the numerator

The fourth card is number 7.

3	10	4	7			***)		**
---	----	---	---	--	--	-----	---	--	----

4. What is the probability that the next number is lower than 7? Show your work.

3/4=1/20

there are only 2 number left that arent already floored 2 less than o

The fifth card is the number 1.

3	10	4	7	1				
---	----	---	---	---	--	--	--	--

When the sixth card is turned the probability that the next card is higher is the same as the probability that it is lower.

5. What must the sixth card be?

Higher

0

Explain how you figured it out.

because there is one more card that is a low number and the

rest are Higher



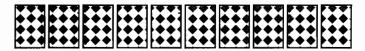
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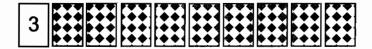
She mixes them up and stands them on a shelf so that the numbers do not show.



Mrs. Jakeman turns the cards around one at a time.

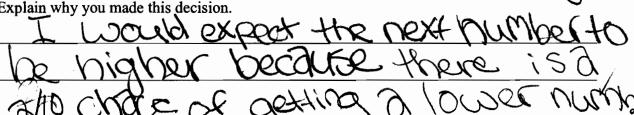
Students have to guess whether the next card will have a higher or a lower number than the one just turned.

The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

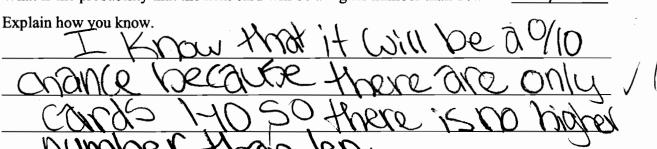
Explain why you made this decision.



The second card is number 10.

, .		•	<u> </u>	_	,	-	
3	10						/
ill be	a hiah	er numh	or than	102	C	100)(

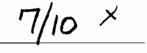
2. What is the probability that the next card will be a higher number than 10?



		_	_			_
The	third	card	is	num	ber	4.

			Ĭ₩¥Ĭ₩¥	∛	
3	1101	4	*** **		
		L			*

3. What is the probability that the next number is higher than 4?





The fourth card is number 7.



4. What is the probability that the next number is lower than 7? Show your work.





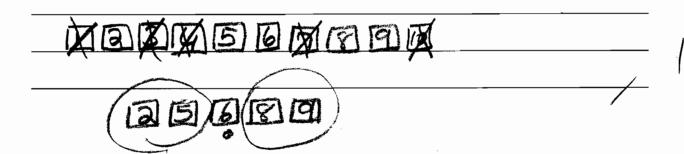
The fifth card is the number 1.



When the sixth card is turned the probability that the next card is higher is the same as the probability that it is lower.

5. What must the sixth card be?

Explain how you figured it out.





This problem gives you the chance to: · figure out and explain probabilities

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The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

Explain why you made this decision.

The second card is number 10.

2. What is the probability that the next card will be a higher number than 10?

Explain how you know.

The third card is number 4.	3 10 4	
3. What is the probability that the next numb Show your work.	7) 70+21	5 7
The fourth card is number 7.	3 10 4 7	
4. What is the probability that the next number Show your work.	er is lower than 7?	6
	1 2 30 5	6 789(10)
The fifth card is the number 1.	3 10 4 7 1	
When the sixth card is turned the probability probability that it is lower. 5. What must the sixth card be? Explain how you figured it out.	that the next card is higher is the 36969	same as the 5
6/I+ is	6 tecause	there is
nun bers		

8

This problem gives you the chance to:

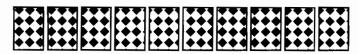
• figure out and explain probabilities

S2

Mrs Jakeman is teaching her class about probability.

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She mixes them up and stands them on a shelf so that the numbers do not show.



Mrs. Jakeman turns the cards around one at a time.

Students have to guess whether the next card will have a higher or a lower number than the one just turned.

The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

higher

Explain why you made this decision.

there are more

numbers

1-10 going

higher

from 3 than there are going lower

The second card is number 10.

3 10

2. What is the probability that the next card will be a higher number than 10?

0 /

Explain how you know.

Mrs. Jakeman

didn't

any

cards

out the

are higher than 10.

		_				
The	third	card	18	nıım	ber	4

3	10	4			

3. What is the probability that the next number is higher than 4? Show your work. 3 is gone 10 is gone

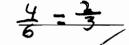


128生56789份

The fourth card is number 7.



4. What is the probability that the next number is lower than 7? Show your work.



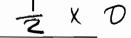
1234 56 789 10

The fifth card is the number 1.

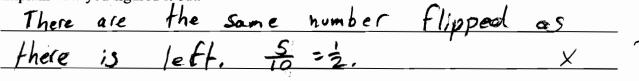
3 10 4 7 1	
------------	--

When the sixth card is turned the probability that the next card is higher is the same as the probability that it is lower.

5. What must the sixth card be?



Explain how you figured it out.



+28X 5678910

This problem gives you the chance to:

· figure out and explain probabilities

S3

Mrs Jakeman is teaching her class about probability.

She has ten cards, numbered 1 to 10.

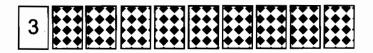
She mixes them up and stands them on a shelf so that the numbers do not show.



Mrs. Jakeman turns the cards around one at a time.

Students have to guess whether the next card will have a higher or a lower number than the one just turned.

The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

Explain why you made this decision.

I would expect it to be higher O

because a lot of times in this situation

you would normally get a higher number

The second card is number 10.



2. What is the probability that the next card will be a higher number than 10?

Explain how you know.

0/

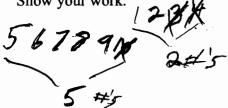
numbers the cards 1-10, so there is only one 10

The	third	card	is	number	4
1 110	umu	caru	12	Hullioci	┱

3	10	4			

3. What is the probability that the next number is higher than 4? Show your work.

5/1/



The fourth card is number 7.



4. What is the probability that the next number is lower than 7? Show your work.



127 56 Lower > 4#'s

#2= Hisher

The fifth card is the number 1.

3	10	4	7	1	
---	----	---	---	---	--

When the sixth card is turned the probability that the next card is higher is the same as the probability that it is lower.

5. What must the sixth card be?

_5 × 6

Explain how you figured it out.

Five is half way between zero and tin

therefore the probability of Less and

greater will be the same.

S4

This problem gives you the chance to:

· figure out and explain probabilities

Mrs Jakeman is teaching her class about probability.

She has ten cards, numbered 1 to 10.

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Students have to guess whether the next card will have a higher or a lower number than the one just turned.

The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

higher.

Explain why you made this decision.

The 75 only two cords lawer than 3 ont 7 cords higher.

The second card is number 10.

Explain how you know.

3 10

2. What is the probability that the next card will be a higher number than 10?

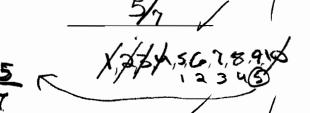
8

be Kloker than 10

The third card is number 4.

			 24
3	10	4	

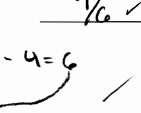
3.	What is the probability	that the	next nu	mber is higher	r than 4?
	Show your work.		-		



The fourth card is number 7.

3 1	0 4	7						
-----	-----	---	--	--	--	--	--	--

4. What is the probability that the next number is lower than 7? Show your work.



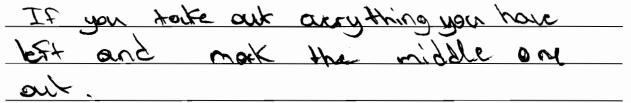
The fifth card is the number 1.



When the sixth card is turned the probability that the next card is higher is the same as the probability that it is lower.

5. What must the sixth card be?

Explain how you figured it out.



X, 2, \$, X, 5, 6, 7, 5, 9, 16



This problem gives you the chance to:

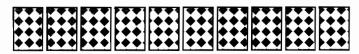
· figure out and explain probabilities

S5

Mrs Jakeman is teaching her class about probability.

She has ten cards, numbered 1 to 10.

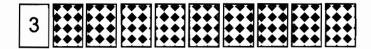
She mixes them up and stands them on a shelf so that the numbers do not show.



Mrs. Jakeman turns the cards around one at a time.

Students have to guess whether the next card will have a higher or a lower number than the one just turned.

The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

higher

Explain why you made this decision.

3 is 1/10. The higher numbers is 5/10=1/2,

the lower numbers is 4/10=2/5. There is a

greater chance of getting a higher number, because there are more of them.

The second card is number 10.

3 10

2. What is the probability that the next card will be a higher number than 10?

0

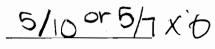
Explain how you know.

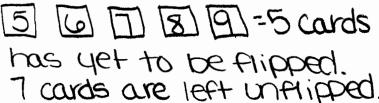
Mrs. Jakeman has 10 cards, numbered 1-10.

TL-	41.:1	4	:-		1
THE	uma	caru	15	number	4.

			<u> </u>		***			
1	2	110	1	••• •••		┧┢╶╡ ┋╒	1797 1	_
•	,	110	🕶	••• •••		┧╠╶ ╤╶ ╒│┞ ╒ ╶╤	10991	
- 1	- 1		ll .	��� ���	♥♥♥₽◆♥	┪╠ ╲ ♥│┡♥♥	┪┡╼╾┪	

3.	What is the probability	that the next number is higher than 4	?
	Show your work.		



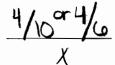




The fourth card is number 7.

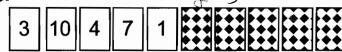


4. What is the probability that the next number is lower than 7? Show your work.



© 5 2 1 = are the numbers
left that have not been flipped.
(e are left unflipped.

The fifth card is the number 1.



When the sixth card is turned the probability that the next card is higher is the same as the probability that it is lower.

5. What must the sixth card be?

_____X____X

Explain how you figured it out.

There would be 4 cards that are lower, and 3 cards that are higher. 5 is the 7th card to be flipped. 5 can be lower or higher in probability.





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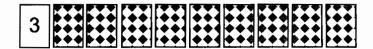
She mixes them up and stands them on a shelf so that the numbers do not show.



Mrs. Jakeman turns the cards around one at a time.

Students have to guess whether the next card will have a higher or a lower number than the one just turned.

The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

Explain why you made this decision.

To me if there is a lower number drawn, I think the be higher

The second card is number 10.



2. What is the probability that the next card will be a higher number than 10?



Explain how you know.

ecause she only has lo cards and

they are all 1-10. So there can't number that's

The	third	card	15	number	4.

3	10	4	

3. What is the probability that the next number is higher than 4?

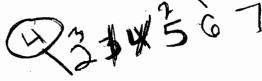
Show your work.

0

The fourth card is number 7.



4. What is the probability that the next number is lower than 7? Show your work.



×

The fifth card is the number 1.

When the sixth card is turned the probability that the next card is higher is the same as the probability that it is lower.

5. What must the sixth card be?

Explain how you figured it out.



This problem gives you the chance to:

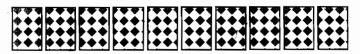
· figure out and explain probabilities

S7

Mrs Jakeman is teaching her class about probability.

She has ten cards, numbered 1 to 10.

She mixes them up and stands them on a shelf so that the numbers do not show.



Mrs. Jakeman turns the cards around one at a time.

Students have to guess whether the next card will have a higher or a lower number than the one just turned.

The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

higher

Explain why you made this decision.

It would proposely be higher because there

lawers

The second card is number 10.

3 10

2. What is the probability that the next card will be a higher number than 10?

Explain how you know.

I know this because there is no cound

•		5/
The third card is number 4.	3 10 4	
3. What is the probability that the next numb Show your work.	per is higher than 4? 56760x	Chance ligher
		U
The fourth card is number 7.	3 10 4 7	
4. What is the probability that the next number Show your work.	er is lower than 7?	- chance higher
1.36)6789	, hohe	, as lower
The fifth card is the number 1.	3 10 4 7 1	
When the sixth card is turned the probability probability that it is lower.	that the next card is higher is the same a	sthe /
5. What must the sixth card be? Explain how you figured it out. I figured this out to	by getting the medi	an of
the numbers left,		
51x has the same	probibility higher	than lower

S8

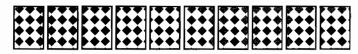
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The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

Higher

Explain why you made this decision.

there and 7 numbers that are higher

The second card is number 10.

3 10

2. What is the probability that the next card will be a higher number than 10? Explain how you know.

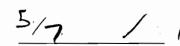
0/10

There is no number above ten in the Cards

The	third	card	is	number	4
1110	umu	caru	12	Hullioci	т.

3	10	4			

3. What is the probability that the next number is higher than 4? Show your work.



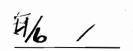
1284518916

C P # 34 1/0

The fourth card is number 7.

3 10 4 7		
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4. What is the probability that the next number is lower than 7? Show your work.



1256 1

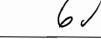
There are 4 numbers left under 7

The fifth card is the number 1.

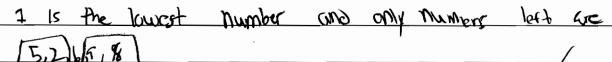
3	10	4	7	1	
---	----	---	---	---	--

When the sixth card is turned the probability that the next card is higher is the same as the probability that it is lower.

5. What must the sixth card be? 5, 2, 6, 9, 8



Explain how you figured it out.





This problem gives you the chance to:

· figure out and explain probabilities

S9

Mrs Jakeman is teaching her class about probability.

She has ten cards, numbered 1 to 10.

She mixes them up and stands them on a shelf so that the numbers do not show.



Mrs. Jakeman turns the cards around one at a time.

Students have to guess whether the next card will have a higher or a lower number than the one just turned.

The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

higher

Explain why you made this decision.

Because there is

a 2 out of

00

10 chance of

10 Amore of setting

higher nue

number

The second card is number 10.

3 10

2. What is the probability that the next card will be a higher number than 10?

0/

Explain how you know.

Because there

İs

high

number tha

io in

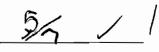
ne deck o

cards.

The	third	card	is	number	4.

			 	 	 _
3	10	4			

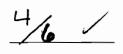
3. What is the probability that the next number is higher than 4? Show your work.



The fourth card is number 7.



4. What is the probability that the next number is lower than 7? Show your work.



The fifth card is the number 1.

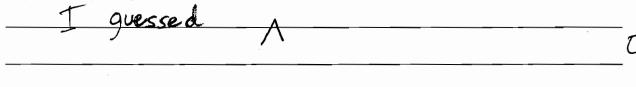
|--|

When the sixth card is turned the probability that the next card is higher is the same as the probability that it is lower.

5. What must the sixth card be?

6	

Explain how you figured it out.





This problem gives you the chance to:

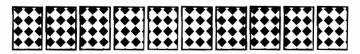
• figure out and explain probabilities

S10

Mrs Jakeman is teaching her class about probability.

She has ten cards, numbered 1 to 10.

She mixes them up and stands them on a shelf so that the numbers do not show.



Mrs. Jakeman turns the cards around one at a time.

Students have to guess whether the next card will have a higher or a lower number than the one just turned.

The first card turned is the number 3.



1. Would you expect the next number to be higher than 3 or lower?

higher

Explain why you made this decision.

There are 7 conds

higher

lan

and

The second card is number 10.

3 10



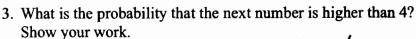
2. What is the probability that the next card will be a higher number than 10?

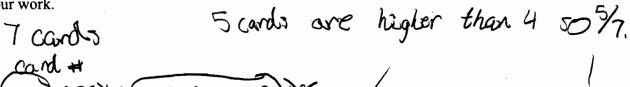
Explain how you know.

highest nu

The	third	card	is	number	4
1 110	umu	caru	13	Hullioci	╼.

3 10 4	
	5/

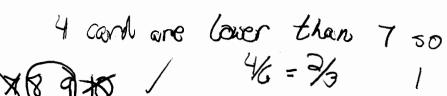




The fourth card is number 7.



4. What is the probability that the next number is lower than 7? Show your work.



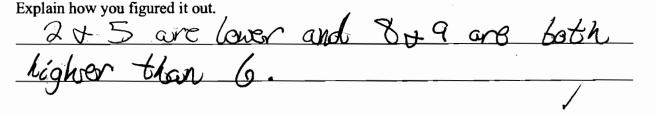
The fifth card is the number 1.

6 cards



When the sixth card is turned the probability that the next card is higher is the same as the probability that it is lower.

5. What must the sixth card be?



X12 |X X13|@ X18|3|X