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.

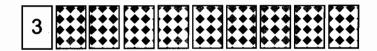
She mixes them up and stands them on a shelf so that the numbers do not show.



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.

There are only 2 digits behind three and 7 above 3.

The second card is number 10.

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

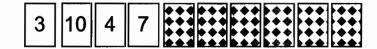
0%

Explain how you know.

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

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.

4/6

x2345688918

The fifth card is the number 1.

3	10	4	7	1	
$\lfloor $	'"	'	•	'	

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.

I believe the rext number will be a, 6 8, or 9 because First there is a humber below 5 and then higher then five and so on so the next number will be above 5.

T2

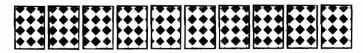
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Students have to guess whether the next card will have a higher or a lower number than the one just turned.

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.

only 2 numbers lower than 3 and there is T

numbers higher than 3. There are more higher numbers that is why I picked 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?

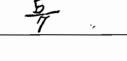
000

Explain how you know.

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

The	third	card	ic	number	1
1 ne	unira	caru	18	number	4,

										# 4	
				**		XXX	**	P * *	**		Г
	3	1101	4		XXX				XX]
		۱. ۱	'		444	6 6	*				1
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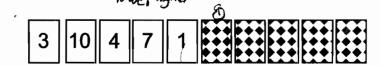
The fourth card is number 7.



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

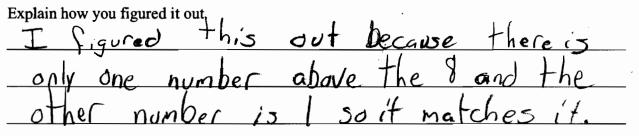


The fifth card is the number 1.



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?



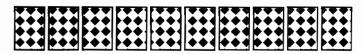
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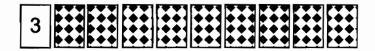
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Students have to guess whether the next card will have a higher or a lower number than the one just turned.

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.

There are more numbers higher than 3 than there are lower than

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.

gere are no numbers over 10 with cards

The	third	card	ic	กบท	her	1
1 ne	unira	cara	15	num	Der	4.

		_ ~
3	10 4	

71%

The fourth card is number 7. The fourth $\frac{10}{3}$

3 10 4 7

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

6636

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?

x 2 3 45 6 789 10 6

Explain how you figured it out.

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:

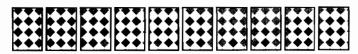
• figure out and explain probabilities

T4

Mrs Jakeman is teaching her class about probability.

She has ten cards, numbered 1 to 10.

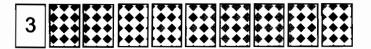
She mixes them up and stands them on a shelf so that the numbers do not show.



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

End Should be 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?

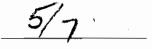
Explain how you know.

There is only 10 cords + the highest number is 10 so there can't be anymore numbers Higher

The	third	card	ic	number	1
1 ne	unira	card	15	number	4

3	10	4	*** ***	*	*
** , *				***	*

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

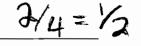


count the non flipped ones for the denominator and the ones left above 4 for the numerator

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.



there are only 2 number left that arent already flopped 2 Less than

The fifth card is the number 1.

	3	10	4	7	1	
ı						غفالغفالة غناله خفاله خ

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.

decause there is that is a low number and the rest are Higher

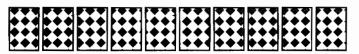
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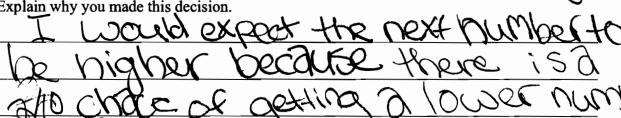
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The first card turned is the number 3.



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

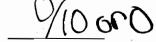
Explain why you made this decision.



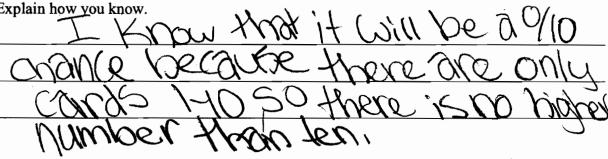
The second card is number 10.

		\sim	_
3	10		

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



Explain how you know.



The	third	card	ic	num	her	4
1110	u	Cuiu	10	HUHH	-	т.

3	10	4			

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.





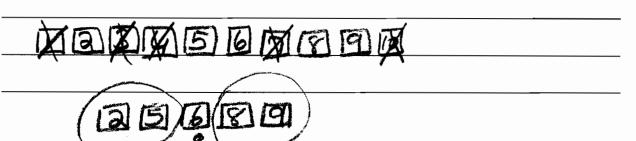
The fifth card is the number 1.



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.



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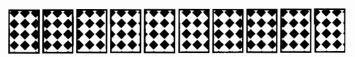
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Mrs. Jakeman turns the cards around one at a time.

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 the only numbers less

than 3 is 1,0 while

than 3.

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.

is the highest card you coul

Page 2

get.

The	third	card	is	number	4
1110	umu	caru	10	number	•

3	110 4	
~	1,011	
\square		

<u>5</u>

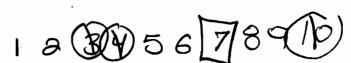
57-0>5

10-3=7 70+31 (1354) 56789

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.



The fifth card is the number 1.

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

5. What must the sixth card be?

125689 -

5

Explain how you figured it out.

6 I + is 6 tecause there is

a lower numbers and a higher

nun bers

This problem gives you the chance to:

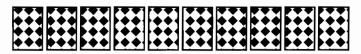
· figure out and explain probabilities

S2

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 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?

Explain how you know.

Mrs. Jakeman di

didn't pul

any

cards

out that

are higher than 10

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

5

128生56789日

The fourth card is number 7.



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

4 = 3

1284 56 789 10

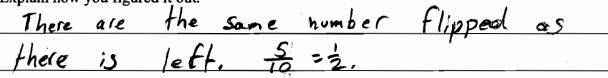
The fifth card is the number 1.

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?

2

Explain how you figured it out.



+28X 56 78916

This problem gives you the chance to:

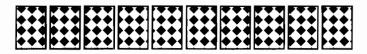
• figure out and explain probabilities

S3

Mrs Jakeman is teaching her class about probability.

She has ten cards, numbered 1 to 10.

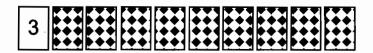
She mixes them up and stands them on a shelf so that the numbers do not show.



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

because a lot of times in this situation

you would normall 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.

I Know this because Mrs. Jake man

numbers the cards 1-10, so there is only

one 10

The	third	aard	:.	number	1
1 ne	unira	card	15	number	4

3	10	4	

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



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.



LOWEY >4#'S

129456 \$89 10 126 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?

Explain how you figured it out.

therefore the probability of less and greater will be the same.

S4

This problem gives you the chance to:

• figure out and explain probabilities

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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.



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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

The second card is number 10.

3 10

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

2

Explain how you know.

There are no cords that

Resource Service. All rights reserved.

The	third	card i	c num	her /	1
1 ne	ınıra	card 1	s num	per 4	t

			 04
3	10	4	

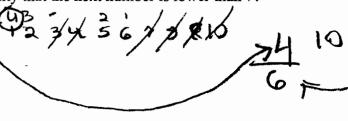


The fourth card is number 7.

3	10	4	7	

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





The fifth card is the number 1.

3 10 4 7 1 1 1 1 1 1 1 1 1	Γ	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.



This problem gives you the chance to:

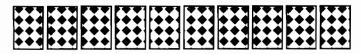
• figure out and explain probabilities

S5

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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.

Explain how you know.

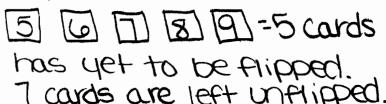
2. What is the probability that the next card will be a higher number than 10?

Mrs. Jakeman has 10 cards, numbered 1-10. She can't get a higher number than 10.

701	41 * . 1	1	•	1	
Ine	third	card	1S	number	4.

				う
3	10	4		

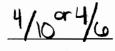
5/10 or 5/-



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] [3] [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?
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.



S6

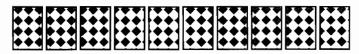
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Students have to guess whether the next card will have a higher or a lower number than the one just turned.

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.

card drawn, I think the next one would be bigher

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 she only has lo cards and they are all 1-10. So there can't be a number that's higher than lo.

The	third	card	is	number	4
1110	umu	Caru	13	Hullioci	т.

3	10 4	

6/10

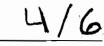
1234/

678410

The fourth card is number 7.

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

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



Q3**507

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. $(2) \times (3) \times$

5. What must the sixth card be?

Explain how you figured it out.

to then I marked

out all the one's that have been used and I had 2,5,6,89 left

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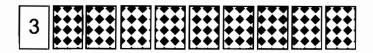
She mixes them up and stands them on a shelf so that the numbers do not show.



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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.

be higher

Buer

The second card is number 10.

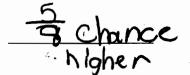
Explain how you know.

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

because there is no

		_				
The	third	card	15	num	her	4

				~	-	-	<i>)</i> [
3	10	4					

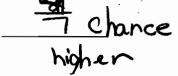


5

The fourth card is number 7.

3 10	4	7	

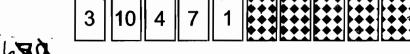
4. What is the probability that the next number is lower than 7? Show your work.



1.35 6 7.89

higher as lower

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?

b

Explain how you figured it out.

I figured this out by getting the median of the numbers left, 2, 5, 6, 8, 9. The number slx has the same probibility higher than lower.

S8

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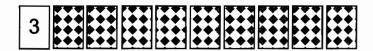
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The first card turned is the number 3.



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

Higher

Explain why you made this decision.

there are 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?

0/10

There is no number above ten in the Cards

The	third	card	is	numl	ber	4
1110	umu	Caru	12	шиш		т.

					C
3	10	4			

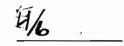


1284518916

The fourth card is number 7.



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



1256 1

There are 4 numbers) est under 7

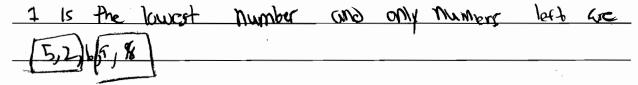
The fifth card is the number 1.



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? 5, 2, 6, 9, 8

Explain how you figured it out.



This problem gives you the chance to:

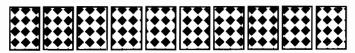
· figure out and explain probabilities

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.

Brickers there is a

boilds a love - number and there

there is a 7

10 drance of getting 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.

Because there

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higher

number tha

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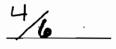
cards

The	third	card	ic	number	4
1 116	uma	Caru	12	Humber	4

The fourth card is number 7.



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



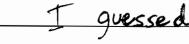
The fifth card is the number 1.

3 1	0 4	7	1			١.
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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:

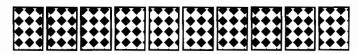
· figure out and explain probabilities

S10

Mrs Jakeman is teaching her class about probability.

She has ten cards, numbered 1 to 10.

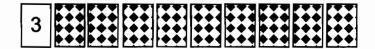
She mixes them up and stands them on a shelf so that the numbers do not show.



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 can

conds higher

than

3 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.

plain how you know.

highest n

number.

The	third	card	is	numb	er 4.

		The same of the sa	U
3	10 4		

ber is higher than 4?

5 cards are higher than 4 50 %.



The fourth card is number 7.

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



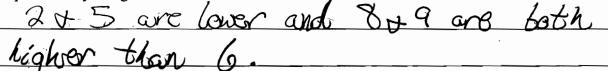
4 card are lower than 7 50

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.



X12 | X X 13 | @ X 18 | 2 | X