This problem gives you the chance to:

· work out probabilities

Ella is teaching her little brother Sammy to play a memory game.



1. She starts with four cards, two have a picture of an apple on them and two have a picture of bananas.

The cards are laid on the table with the pictures hidden, and then mixed up. Ella says 'you can turn over two cards and you win if they are the same'.





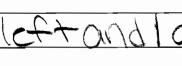




Sammy turns over one card. It has an apple on it. Then he turns over another card. What is the probability that the second card has an apple on it?



Explain how you figured it out.



2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.





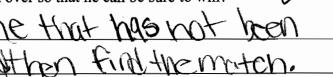




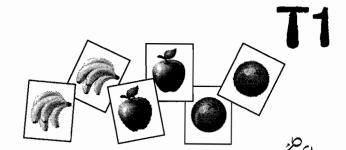
Sammy is good at remembering where things are.

He turns over one card and then another.

How should he choose the first card to turn over so that he can be sure to win?



Resource Service. All rights reserved.



She lays all the cards down with the pictures hidden and mixes them up.



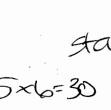














Sammy turns over one card and then another.

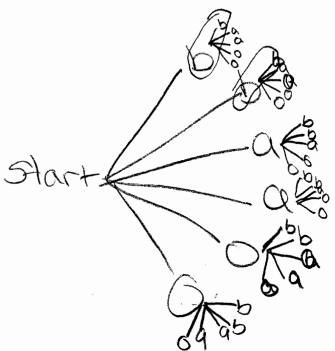
What is the probability that they are both the same? Explain how you figured it out.



2

4. What is the probability that they both have pictures of a banana? Show how you worked it out.







T

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• work out probabilities

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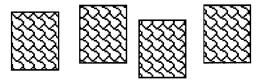


Sammy turns over one card. It has an apple on it. Then he turns over another card. What is the probability that the second card has an apple on it?

Explain how you figured it out.

I figured it out by having the three cards / left equal 100% and only one was an apple so T divided 100 by 3 to get 1/3.

2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.

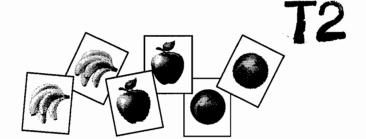


Sammy is good at remembering where things are.

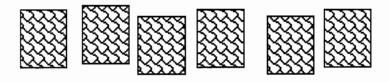
He turns over one card and then another.

How should he choose the first card to turn over so that he can be sure to win?

He chooses a different card this time so that if its an apple he knows where the other one is.



She lays all the cards down with the pictures hidden and mixes them up.



Sammy turns over one card and then another.

What is the probability that they are both the same?

Explain how you figured it out.

Now there are five left to match the first one so I did 100 divided by 5 to get 20%

4. What is the probability that they both have pictures of a banana? Show how you worked it out.

20 % × 0

This is the same as last time

This problem gives you the chance to:

· work out probabilities

**T3** 

Ella is teaching her little brother Sammy to play a memory game.



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The cards are laid on the table with the pictures hidden, and then mixed up. Ella says 'you can turn over two cards and you win if they are the same'.









Sammy turns over one card. It has an apple on it. Then he turns over another card. What is the probability that the second card has an apple on it?

Explain how you figured it out.

the already knows one is an apple, there is one more apple and 3 cards.

2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.







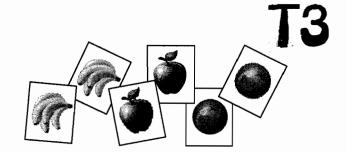


Sammy is good at remembering where things are.

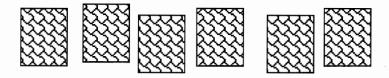
He turns over one card and then another.

How should he choose the first card to turn over so that he can be sure to win?

first time, so he can choose the right one.



She lays all the cards down with the pictures hidden and mixes them up.



Sammy turns over one card and then another.

What is the probability that they are both the same? Explain how you figured it out.

1/5

There is one more of that card and 5

4. What is the probability that they both have pictures of a banana? Show how you worked it out.

1/18 × 0

He can get 2 banaras twice, and there is 36 combinations. Simplify

**T4** 

This problem gives you the chance to:

· work out probabilities

Ella is teaching her little brother Sammy to play a memory game.



1. She starts with four cards, two have a picture of an apple on them and two have a picture of bananas.

The cards are laid on the table with the pictures hidden, and then mixed up. Ella says 'you can turn over two cards and you win if they are the same'.



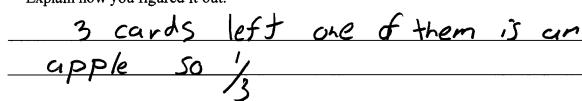






Sammy turns over one card. It has an apple on it. Then he turns over another card. What is the probability that the second card has an apple on it?

Explain how you figured it out.



2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.







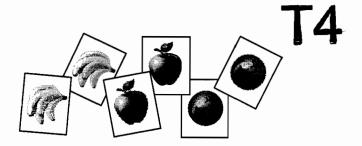


Sammy is good at remembering where things are.

He turns over one card and then another.

How should he choose the first card to turn over so that he can be sure to win?

Not the one that he chose to do



She lays all the cards down with the pictures hidden and mixes them up.













Sammy turns over one card and then another.

What is the probability that they are both the same? Explain how you figured it out.

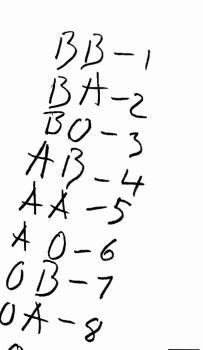


it would be 2/6 because 6 cards and 3 sets of 2 so it is 2/6 or 1/3 x

4. What is the probability that they both have pictures of a banana? Show how you worked it out.

<u>/a</u> × 0

B= bannas A= apples G= oranges B-A A-BA D-13



0

This problem gives you the chance to:

· work out probabilities

**T5** 

Ella is teaching her little brother Sammy to play a memory game.



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The cards are laid on the table with the pictures hidden, and then mixed up. Ella says 'you can turn over two cards and you win if they are the same'.





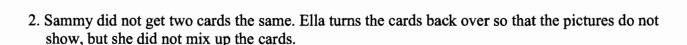




Sammy turns over one card. It has an apple on it. Then he turns over another card. What is the probability that the second card has an apple on it?

Explain how you figured it out.

There are 3 possible cards, and I has an apple.









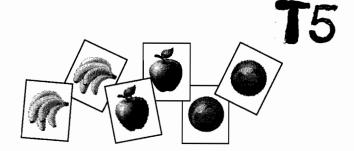


Sammy is good at remembering where things are.

He turns over one card and then another.

How should he choose the first card to turn over so that he can be sure to win?

He should turn a card he hasn't seen yet.



She lays all the cards down with the pictures hidden and mixes them up.







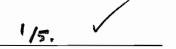






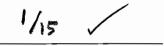
Sammy turns over one card and then another.

What is the probability that they are both the same? Explain how you figured it out.



It doesn't matter what the first card is and there's a 1/5 chance of card 2 being the same as card 1. |x 1/5 = 1/5.

4. What is the probability that they both have pictures of a banana? Show how you worked it out.



1/3 × 1/5 = 1/15

This problem gives you the chance to:

· work out probabilities

**S**1

Ella is teaching her little brother Sammy to play a memory game.



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Sammy turns over one card. It has an apple on it. Then he turns over another card.

What is the probability that the second card has an apple on it?

Explain how you figured it out.

There are three cards left and only one has an apple on it.

2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.









Sammy is good at remembering where things are.

He turns over one card and then another.

How should he choose the first card to turn over so that he can be sure to win?

He should take a card he has not chosen,



She lays all the cards down with the pictures hidden and mixes them up.







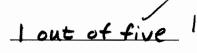






Sammy turns over one card and then another.

What is the probability that they are both the same? Explain how you figured it out.



The first can be an apple, a burana or an orange. There are 5 left and one is the same. 2

4. What is the probability that they both have pictures of a banana? Show how you worked it out.

is 2 bananas out of six cards

1/5 is 1 banana out of five cards  $\frac{2}{6}$ .  $\frac{1}{5} = \frac{2}{30}$ 

This problem gives you the chance to:

· work out probabilities

**S**2

Ella is teaching her little brother Sammy to play a memory game.



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The cards are laid on the table with the pictures hidden, and then mixed up. Ella says 'you can turn over two cards and you win if they are the same'.





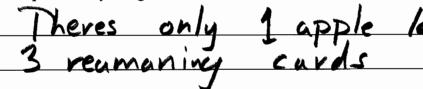




Sammy turns over one card. It has an apple on it. Then he turns over another card.

What is the probability that the second card has an apple on it?

Explain how you figured it out.



2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.







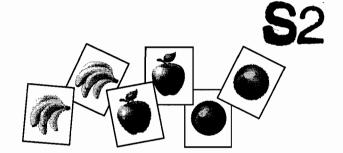


Sammy is good at remembering where things are.

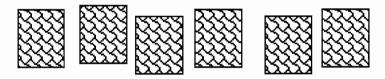
He turns over one card and then another.

How should he choose the first card to turn over so that he can be sure to win?

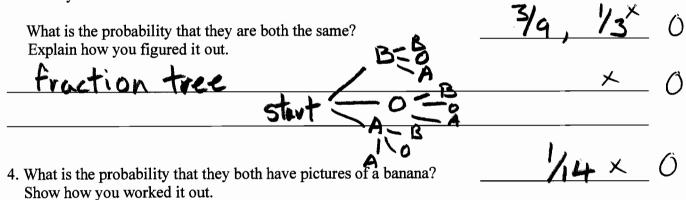
that he didn't flip over.



She lays all the cards down with the pictures hidden and mixes them up.



Sammy turns over one card and then another.



This problem gives you the chance to:

· work out probabilities

**S**3

Ella is teaching her little brother Sammy to play a memory game.



1. She starts with four cards, two have a picture of an apple on them and two have a picture of bananas.

The cards are laid on the table with the pictures hidden, and then mixed up. Ella says 'you can turn over two cards and you win if they are the same'.









Sammy turns over one card. It has an apple on it. Then he turns over another card. What is the probability that the second card has an apple on it?

1/3/

Explain how you figured it out.

There are 3 cards, 2 of them are not apples 1

2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.







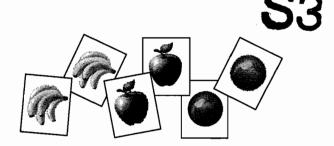


Sammy is good at remembering where things are.

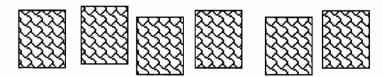
He turns over one card and then another.

How should he choose the first card to turn over so that he can be sure to win?

the should choose the on

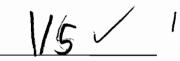


She lays all the cards down with the pictures hidden and mixes them up.



Sammy turns over one card and then another.

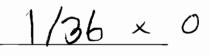
What is the probability that they are both the same? Explain how you figured it out.



the Picks one card there 5/2ft

1/5 is right

4. What is the probability that they both have pictures of a banana? Show how you worked it out.



16	í	16	=	136
•				

This problem gives you the chance to:

work out probabilities

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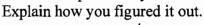






Sammy turns over one card. It has an apple on it. Then he turns over another card.

What is the probability that the second card has an apple on it?



2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.









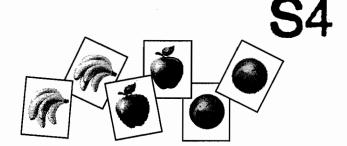
Sammy is good at remembering where things are.

He turns over one card and then another.

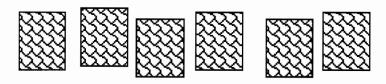
How should he choose the first card to turn over so that he can be sure to win?

the banana card

ne becouse he Knows where



She lays all the cards down with the pictures hidden and mixes them up.



Sammy turns over one card and then another.

What is the probability that they are both the same?

Explain how you figured it out.

If the first is apple then I apple left in the 5 and same for Danuna and orange

4. What is the probability that they both have pictures of a banana?

Show how you worked it out.

Theres 15 for apple, Danana or orange being both the same but now its just 2 bananas so theres 1 in 15 ways

This problem gives you the chance to:

work out probabilities

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The cards are laid on the table with the pictures hidden, and then mixed up. Ella says 'you can turn over two cards and you win if they are the same'.









Sammy turns over one card. It has an apple on it. Then he turns over another card.

What is the probability that the second card has an apple on it? What is the probability that the second card has an apple on it?

Explain how you figured it out.

since I is already flipped over it is

2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.







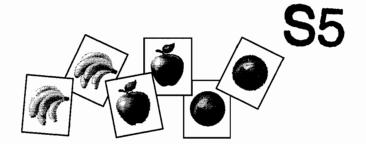


Sammy is good at remembering where things are.

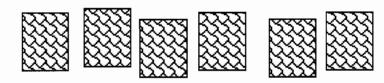
He turns over one card and then another.

How should he choose the first card to turn over so that he can be sure to win?

a different card then what

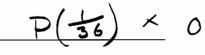


She lays all the cards down with the pictures hidden and mixes them up.



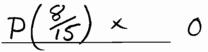
Sammy turns over one card and then another.

What is the probability that they are both the same? Explain how you figured it out.



there is to chance of getting one of them, x to chance of getting the other x

4. What is the probability that they both have pictures of a banana? Show how you worked it out.



 $\frac{2}{6} + \frac{1}{5} = \frac{8}{15}$ 

This problem gives you the chance to:

· work out probabilities

**S**6

Ella is teaching her little brother Sammy to play a memory game.



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The cards are laid on the table with the pictures hidden, and then mixed up. Ella says 'you can turn over two cards and you win if they are the same'.







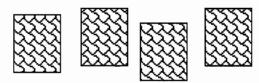


Sammy turns over one card. It has an apple on it. Then he turns over another card. What is the probability that the second card has an apple on it?

Explain how you figured it out.

There are three cards left, and only one is an apple.

2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.



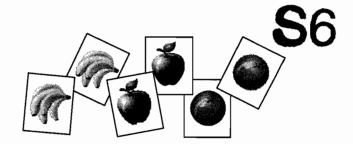
Sammy is good at remembering where things are.

He turns over one card and then another.

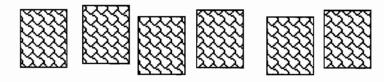
How should he choose the first card to turn over so that he can be sure to win?

He shouldn't choose the same card he picked last time.

Then he'll know what's under the other three cards.



She lays all the cards down with the pictures hidden and mixes them up.



Sammy turns over one card and then another.

What is the probability that they are both the same? Explain how you figured it out.

1:5

There are 5 cards left.

1:15 / 1

4. What is the probability that they both have pictures of a banana? Show how you worked it out.



This problem gives you the chance to:

work out probabilities

**S7** 

Ella is teaching her little brother Sammy to play a memory game.



1. She starts with four cards, two have a picture of an apple on them and two have a picture of bananas.

The cards are laid on the table with the pictures hidden, and then mixed up. Ella says 'you can turn over two cards and you win if they are the same'.









Sammy turns over one card. It has an apple on it. Then he turns over another card. 
What is the probability that the second card has an apple on it?

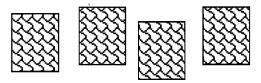
Explain how you figured it out.

there is only one apple and there is

two banassas left = 3

a+6+6= = or getting another

2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.

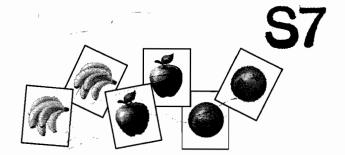


Sammy is good at remembering where things are.

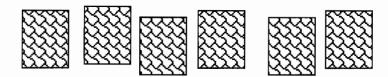
He turns over one card and then another.

How should he choose the first card to turn over so that he can be sure to win?

He should turn over the apple that was pace up so be can win x



She lays all the cards down with the pictures hidden and mixes them up.



Sammy turns over one card and then another.

What is the probability that they are both the same? Explain how you figured it out.

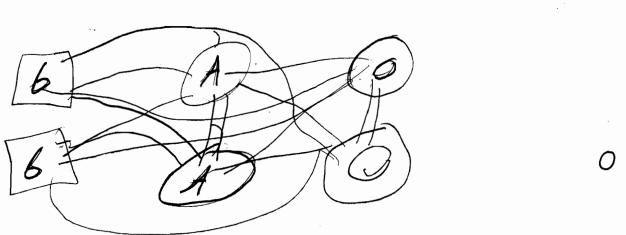
3 x 0

There are 3 because you could get matches

3 dirfrept hays and you can get no

matches six ways

4. What is the probability that they both have pictures of a banana? Show how you worked it out.



88, BB, BA, BA, BA, BO, BO, BO, BO, BO, AA, 1A,

This problem gives you the chance to:

· work out probabilities

**S8** 

Ella is teaching her little brother Sammy to play a memory game.



1. She starts with four cards, two have a picture of an apple on them and two have a picture of bananas.

The cards are laid on the table with the pictures hidden, and then mixed up. Ella says 'you can turn over two cards and you win if they are the same'.









Sammy turns over one card. It has an apple on it. Then he turns over another card.

What is the probability that the second card has an apple on it?

1/3 dance

Explain how you figured it out.

vell there

is

only

1 aple let 4

out of

<u>- CUV013</u>

2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.









Sammy is good at remembering where things are.

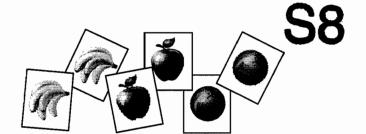
He turns over one card and then another.

How should he choose the first card to turn over so that he can be sure to win?

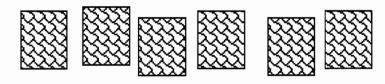
e knows

Where the

e other is



She lays all the cards down with the pictures hidden and mixes them up.



Sammy turns over one card and then another.

What is the probability that they are both the same? Explain how you figured it out.

1/3 dance

the same of 5 left,

4. What is the probability that they both have pictures of a banana?

Show how you worked it out.



This problem gives you the chance to:

· work out probabilities

S9

Ella is teaching her little brother Sammy to play a memory game.



1. She starts with four cards, two have a picture of an apple on them and two have a picture of bananas.

The cards are laid on the table with the pictures hidden, and then mixed up. Ella says 'you can turn over two cards and you win if they are the same'.









Sammy turns over one card. It has an apple on it. Then he turns over another card. What is the probability that the second card has an apple on it?

Explain how you figured it out.



once you flip the first card.

2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.







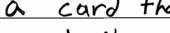


Sammy is good at remembering where things are.

He turns over one card and then another.

How should he choose the first card to turn over so that he can be sure to win?

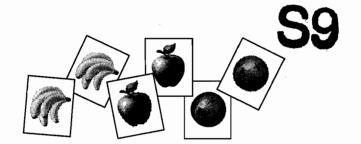
he turns



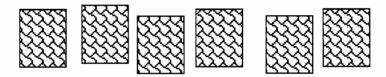


the cure

with a card he did Pick.



She lays all the cards down with the pictures hidden and mixes them up.



Sammy turns over one card and then another.

What is the probability that they are both the same? Explain how you figured it out.

Sammy

left over once he picks up one car

4. What is the probability that they both have pictures of a banana? Show how you worked it out.

Λ

This problem gives you the chance to:

· work out probabilities

**S10** 

Ella is teaching her little brother Sammy to play a memory game.



1. She starts with four cards, two have a picture of an apple on them and two have a picture of bananas.

The cards are laid on the table with the pictures hidden, and then mixed up. Ella says 'you can turn over two cards and you win if they are the same'.









Sammy turns over one card. It has an apple on it. Then he turns over another card. What is the probability that the second card has an apple on it?

Explain how you figured it out.

There are 3 choices left. The apple has to be one of them. -5 = 33.3%

2. Sammy did not get two cards the same. Ella turns the cards back over so that the pictures do not show, but she did not mix up the cards.







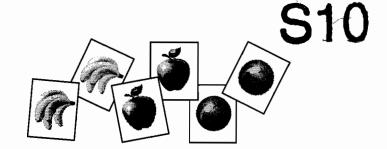


Sammy is good at remembering where things are.

He turns over one card and then another.

How should he choose the first card to turn over so that he can be sure to win?

He should pick on of the 2 he picked before. Then there are two options and a 50.50 chance.



She lays all the cards down with the pictures hidden and mixes them up.







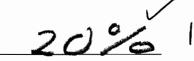






Sammy turns over one card and then another.

What is the probability that they are both the same? Explain how you figured it out.



2 Apples

les &

- - - - 3

2 bananas 30

1 Oranges 30 -630 = 20%

4. What is the probability that they both have pictures of a banana? Show how you worked it out.



= 6.6%

