This problem gives you the chance to:

· work out probabilities

T1

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'.





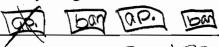




Sammy turns over one card. It has an apple on it. Then he turns over another card. What is the probability that the second card has an apple on it?

1/3

Explain how you figured it out.



90 2 san left and apso that

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.





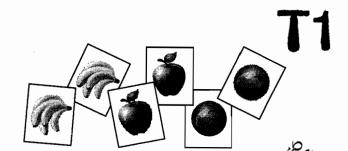




Sammy is good at remembering where things are.

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?



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



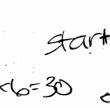














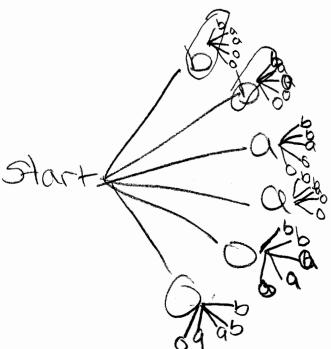
Sammy turns over one card and then another.

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



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

T2

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?

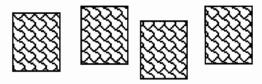
Explain how you figured it out.

I figured it out by having the three cards

left equal 100% and only one was an apple so

I 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.

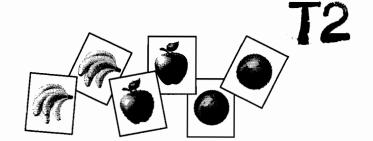


Sammy is good at remembering where things are.

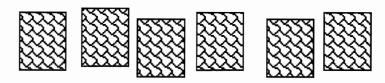
He turns over one card and then another.

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

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 motch 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%

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.



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.

the already from 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.







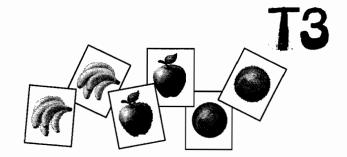


Sammy is good at remembering where things are.

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.

that card and 5 There is one more of cards Ceft.

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

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

T4

This problem gives you the chance to:

· work out probabilities

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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.

apple so 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.







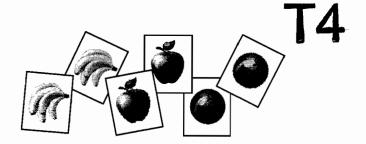


Sammy is good at remembering where things are.

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?

last time



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.

<u>//m</u>

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

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

1/9

B=bannas A=apples G=oranges

This problem gives you the chance to:

work out probabilities

T5

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 possible cards, and I has 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.







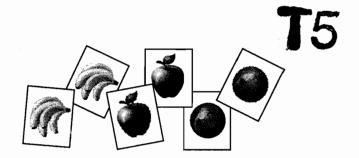


Sammy is good at remembering where things are.

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 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.

1/5.

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. |x1/5=1/5.

1/3× 1/5= 1/15

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

1/15

This problem gives you the chance to:

· work out probabilities

S1

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 three cards left and only one has

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.

1 out of five

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

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

2 out of thirty

banunas out of six cards banana out of five curds

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.





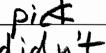


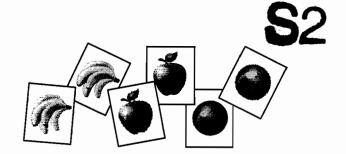


Sammy is good at remembering where things are.

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?





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.

3/9, 1/3

fraction tree

start COE

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

1/4

BOOAA OBBAA

This problem gives you the chance to:

· work out probabilities

S3

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 cards, 2 of them are apples

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.







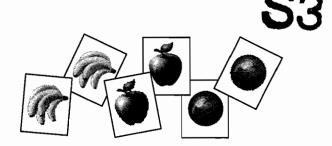


Sammy is good at remembering where things are.

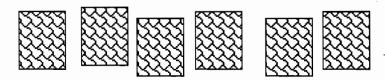
He turns over one card and then another.

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

the should choose the one

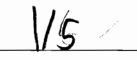


She lays all the cards down with the pictures hidden and mixes them up.



Sammy turns over one card and then another.

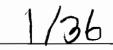
What is the probability that they are both the same? Explain how you figured it out.



she Picks one card there 5 left 1/5 is right

Page 7

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



Memory Game

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?

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?

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.

There's 15 for apple, Danana or Grange 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

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?

P(33°/0) or (3) Explain how you figured it out.

since I is already flipped over it is ou

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.





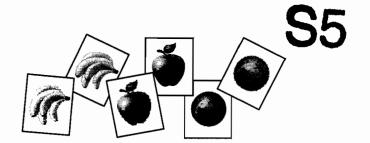




Sammy is good at remembering where things are.

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?



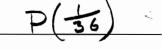
She lays all the cards down with the pictures hidden and mixes them up.



Sammy turns over one card and then another.

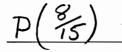
What is the probability that they are both the same?

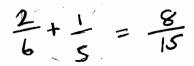
Explain how you figured it out.



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

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

S6

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 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.







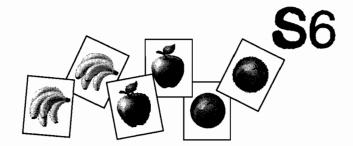


Sammy is good at remembering where things are.

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 ti



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.

5 cards left.

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

1:15

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. $\frac{1}{3}$ What is the probability that the second card has an apple on it?

There is only one apple and there is

two banassas left = $\frac{1}{3}$ a+6+6= $\frac{1}{3}$ 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.

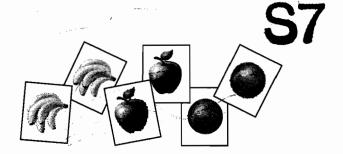


Sammy is good at remembering where things are.

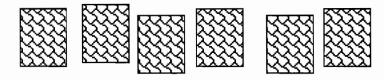
He turns over one card and then another.

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



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

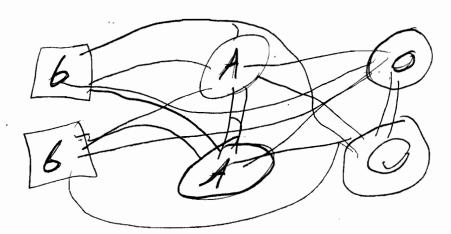


Sammy turns over one card and then another.

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

because

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

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.





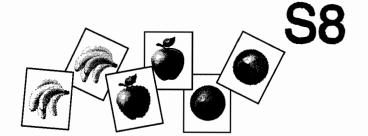




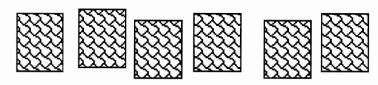
Sammy is good at remembering where things are.

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?



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.

15 chance

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

2+5= 15

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'.







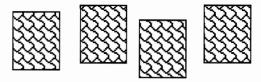


Sammy turns over one card. It has an apple on it. Then he turns over another card. What is the probability that the second card has an apple on it?

Explain how you figured it out.



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.

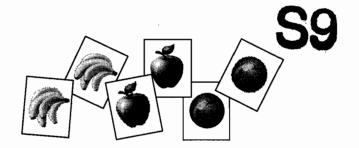


Sammy is good at remembering where things are.

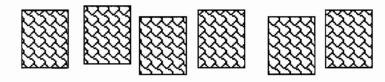
He turns over one card and then another.

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

did not pick and then match the card 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 card

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

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. -3 = 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.







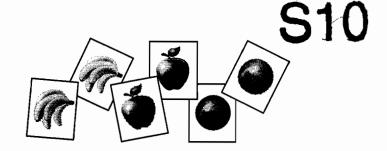


Sammy is good at remembering where things are.

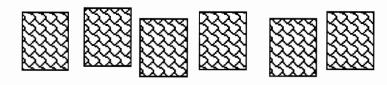
He turns over one card and then another.

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.

20%

2 Apples - 5 = 30 2 Oranges = 2 bananas = 30

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

6.6%

= 6.6%