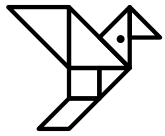




Learn a new puzzle

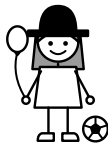
Best Question



Nia is thinking of one friend. You ask about a card; Nia says yes or no. Circle the best card. If Nia says NO to it, how many friends are left?



1



2



3



4



5



6



7



8



9



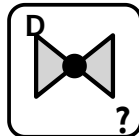
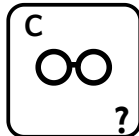
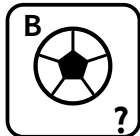
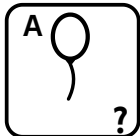
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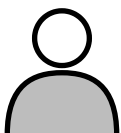
11



12



- 1 For each card, count the YES friends and the NO friends.
- 2 A good card splits the friends about in half.
- 3 Always plan for the worse answer.



Ask: if the answer is no, who is left?



1 Best Question

Lucy is thinking of one friend. You ask about a card; Lucy says yes or no. Circle the best card. If Lucy says NO to it, how many friends are left?



1



2



3



4



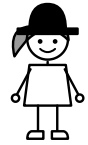
5



6



7



8



9



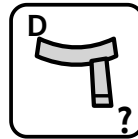
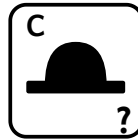
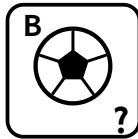
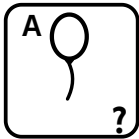
10



11



12



2 Best Question

Javier is thinking of one friend. You ask about a card; Javier says yes or no. Circle the best card. If Javier says NO to it, how many friends are left?



1



2



3



4



5



6



7



8



9



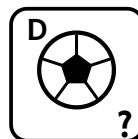
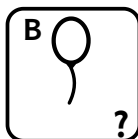
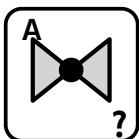
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11



12





3 Best Question

Ethan is thinking of one friend. You ask about a card; Ethan says yes or no. Circle the best card. If Ethan says NO to it, how many friends are left?



1



2



3



4



5



6



7



8



9



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11

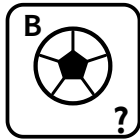


12



A

?



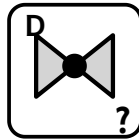
B

?



C

?



D

?

4 Best Question

Vera is thinking of one friend. You ask about a card; Vera says yes or no. Circle the best card. If Vera says NO to it, how many friends are left?



1



2



3



4



5



6



7



8



9



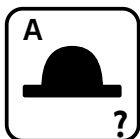
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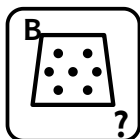


12



A

?



B

?



C

?



D

?

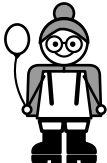


5 Best Question

Mia is thinking of one friend. You ask about a card; Mia says yes or no. Circle the best first card. Then write the best next card if Mia says YES, and if Mia says NO.



1



2



3



4



5



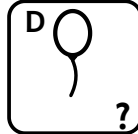
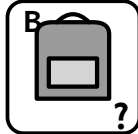
6



7



8



6 Best Question

Logan is thinking of one friend. You ask about a card; Logan says yes or no. Circle the best first card. Then write the best next card if Logan says YES, and if Logan says NO.



1



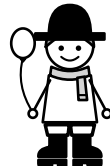
2



3



4



5



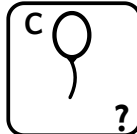
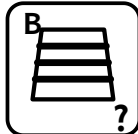
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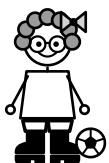


8



7 Best Question

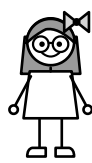
Owen is thinking of one friend. You ask about a card; Owen says yes or no. Circle the best first card. Then write the best next card if Owen says YES, and if Owen says NO.



1



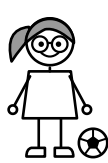
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3



4



5



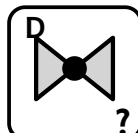
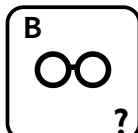
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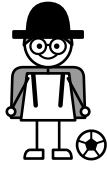
8

Best Question

Ryan is thinking of one friend. You ask about a card; Ryan says yes or no. Circle the best first card. Then write the best next card if Ryan says YES, and if Ryan says NO.



1



2



3



4



5



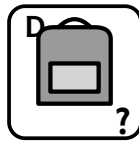
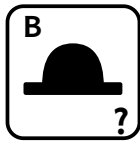
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7



8



9

Best Question

Gia is thinking of one friend. You ask about a card; Gia says yes or no. You may ask any of the cards, one at a time. Can you always find the friend in 4 questions? Yes or No?



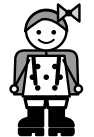
1



2



3



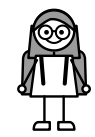
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5



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7



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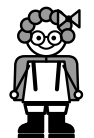
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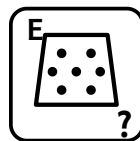
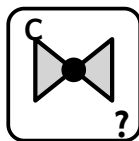
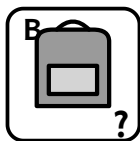
14



15



16



**10****Best Question**

Noah is thinking of one friend. You ask about a card; Noah says yes or no. You may ask any of the cards, one at a time. Can you always find the friend in 4 questions? Yes or No?



1



2



3



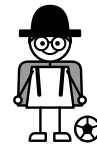
4



5



6



7



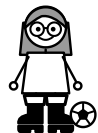
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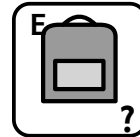
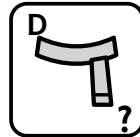
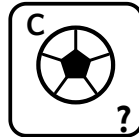
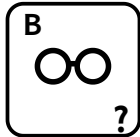
14



15



16





Answers For grown-ups. Cut off or keep this page aside until the puzzles are done.

Learn · Best Question

Card D, 6 left after no

#1

Card B, 6 left after no

A leaves 7 or 5; B leaves 6 or 6; C leaves 8 or 4; D leaves 2 or 10.

#2

Card C, 7 left after no

A leaves 4 or 8; B leaves 4 or 8; C leaves 5 or 7; D leaves 8 or 4.

#3

Card D, 6 left after no

A leaves 7 or 5; B leaves 4 or 8; C leaves 5 or 7; D leaves 6 or 6.

#4

Card A, 7 left after no

A leaves 5 or 7; B leaves 8 or 4; C leaves 3 or 9; D leaves 9 or 3.

#5

C; after yes D, after no B

C splits the friends most evenly; then split each half again.

#6

B; after yes C, after no D

B splits the friends most evenly; then split each half again.

#7

C; after yes B, after no A

C splits the friends most evenly; then split each half again.

#8

D; after yes C, after no A

D splits the friends most evenly; then split each half again.

#9

Yes

Each question can at best halve the group. Here 4 is enough.

#10

Yes

Each question can at best halve the group. Here 4 is enough.