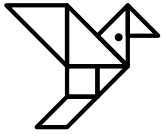


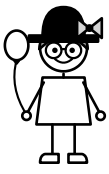


Learn a new puzzle

Best Question



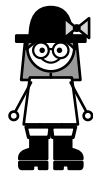
Aisha is thinking of one friend. You ask about a card; Aisha says yes or no. Plan 3 questions that always find the friend. Write card letters in the boxes.



1



2



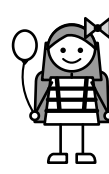
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4



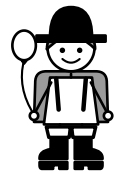
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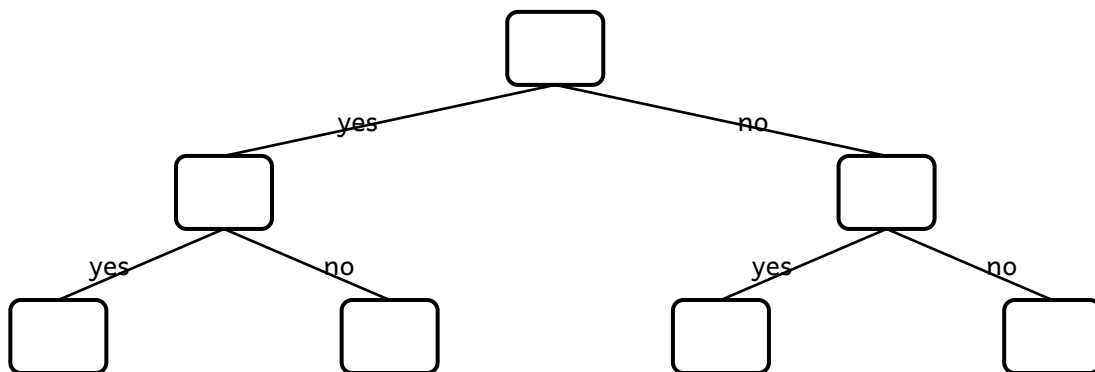
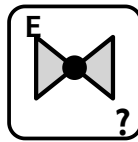
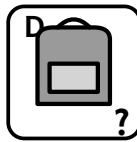
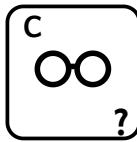
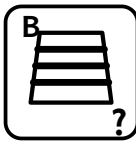
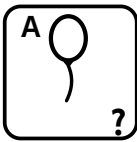
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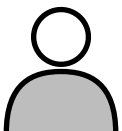
7



8



- 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

Mateo is thinking of one friend. You ask about a card; Mateo says yes or no. Plan 3 questions that always find the friend. Write card letters in the boxes.



1



2



3



4



5



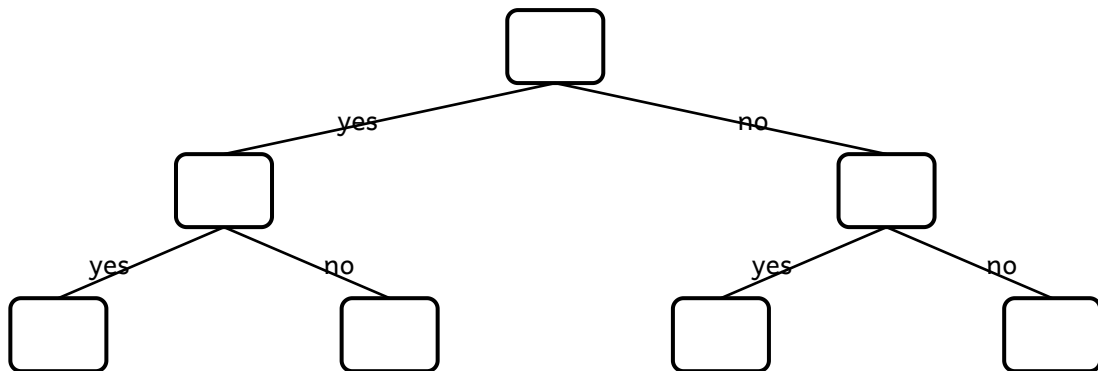
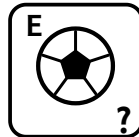
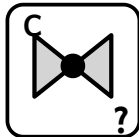
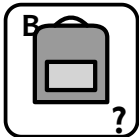
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7



8





2

Best Question

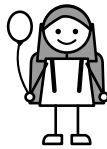
Daniela is thinking of one friend. You ask about a card; Daniela says yes or no. Plan 3 questions that always find the friend. Write card letters in the boxes.



1



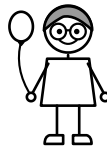
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3



4



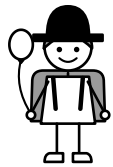
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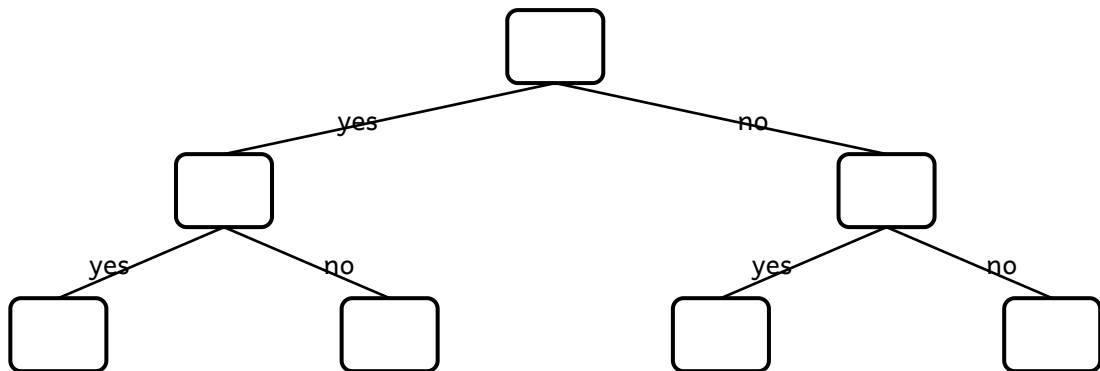
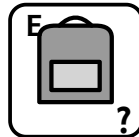
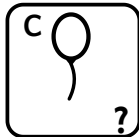
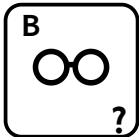
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7



8

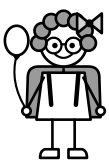




3

Best Question

Logan is thinking of one friend. You ask about a card; Logan says yes or no. Plan 3 questions that always find the friend. Write card letters in the boxes.



1



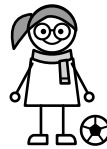
2



3



4



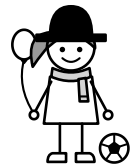
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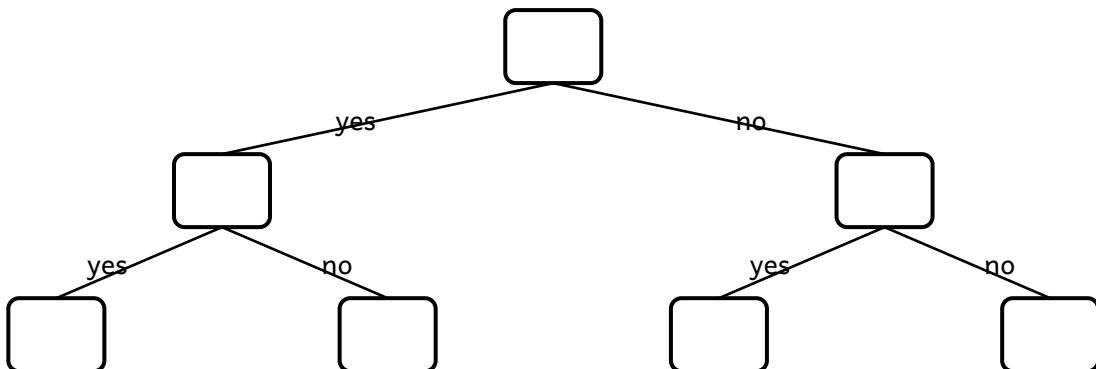
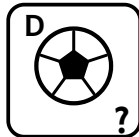
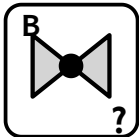
6



7



8





4

Best Question

Ryan is thinking of one friend. You ask about a card; Ryan says yes or no. Plan 3 questions that always find the friend. Write card letters in the boxes.



1



2



3



4



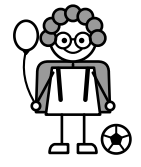
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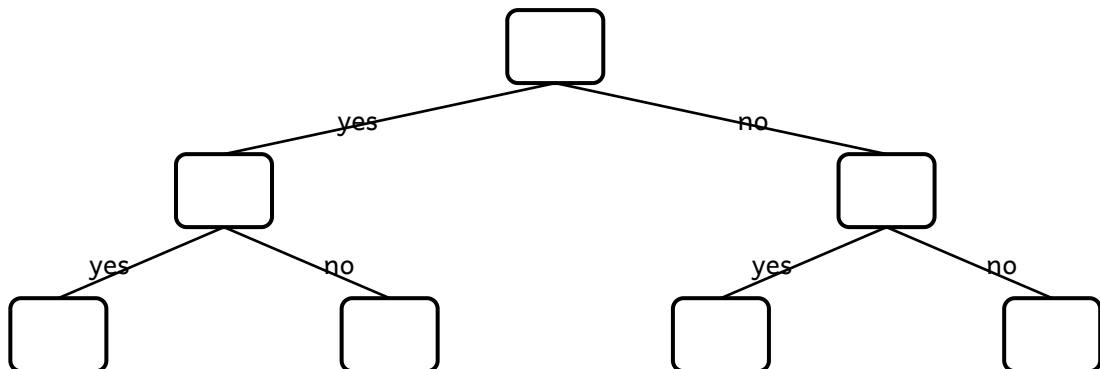
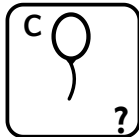
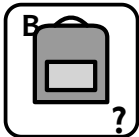
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7



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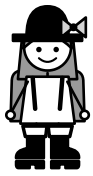




5

Best Question

Ines is thinking of one friend. You ask about a card; Ines says yes or no. Plan 3 questions that always find the friend. Write card letters in the boxes.



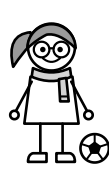
1



2



3



4



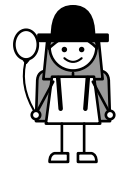
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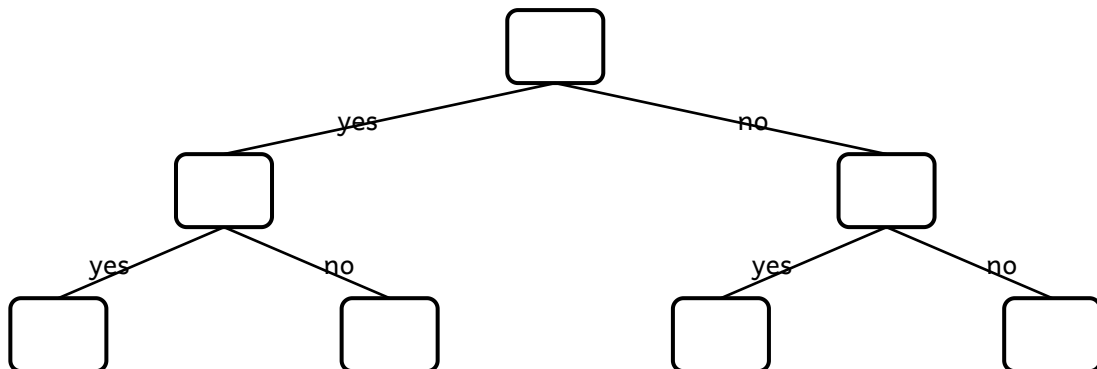
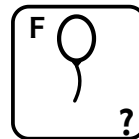
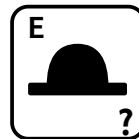
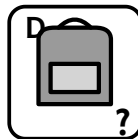
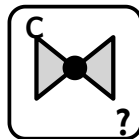
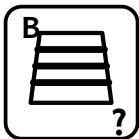
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7



8





6

Best Question

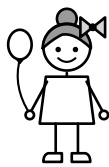
Ezra is thinking of one friend. You ask about a card; Ezra says yes or no. Plan 3 questions that always find the friend. Write card letters in the boxes.



1



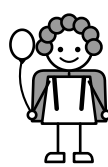
2



3



4



5



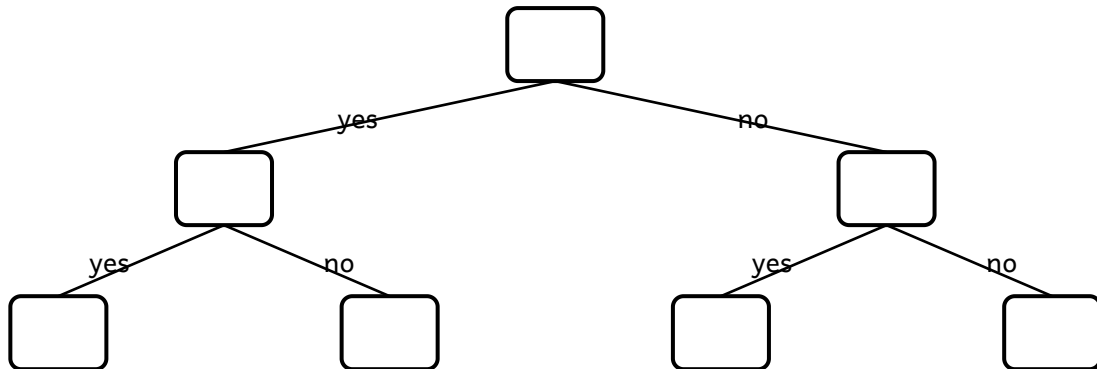
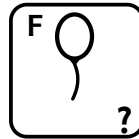
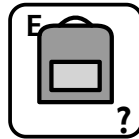
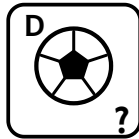
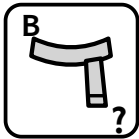
6



7



8



**7****Best Question**

Blake is thinking of one friend. You ask about a card; Blake says yes or no. Plan 3 questions that always find the friend. Write card letters in the boxes.



1



2



3



4



5



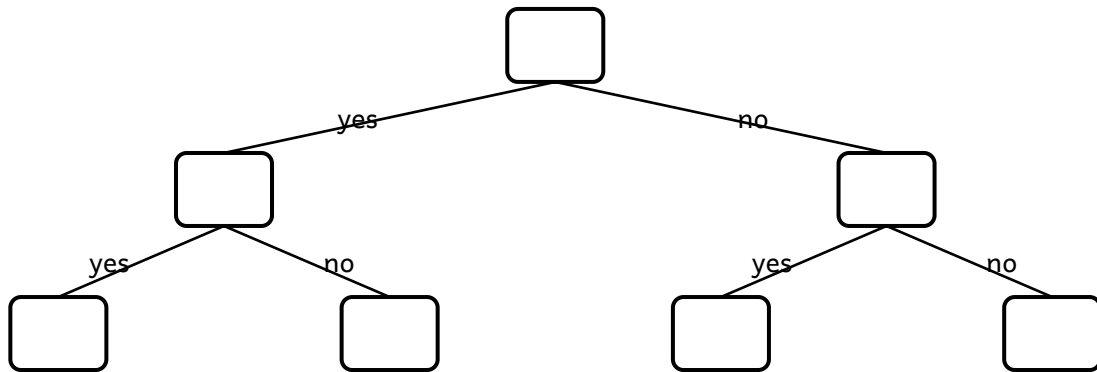
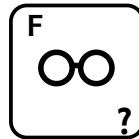
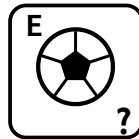
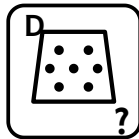
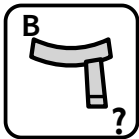
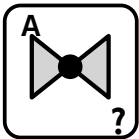
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7



8

**8****Best Question**

Leo is thinking of one friend. You ask about a card; Leo says yes or no. You may ask any of the cards, one at a time. What is the fewest number of questions that always finds the friend?



1



2



3



4



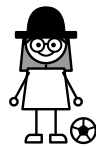
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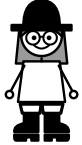
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7



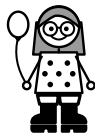
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9



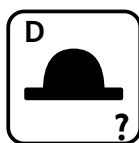
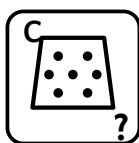
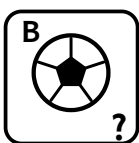
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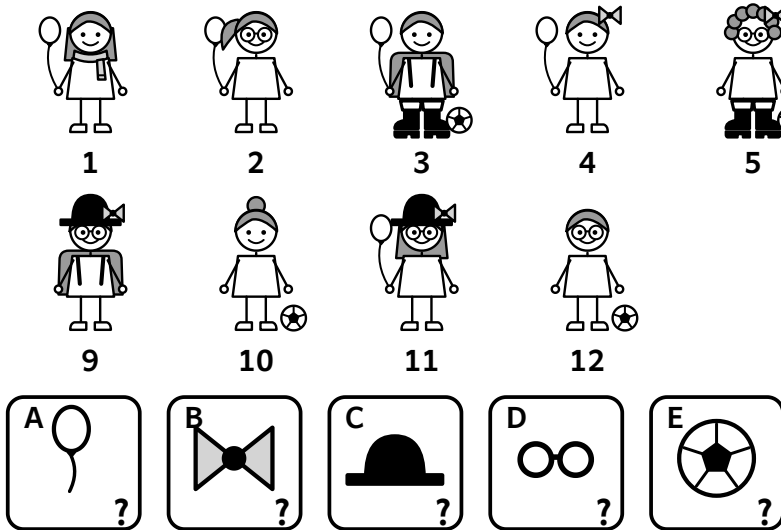
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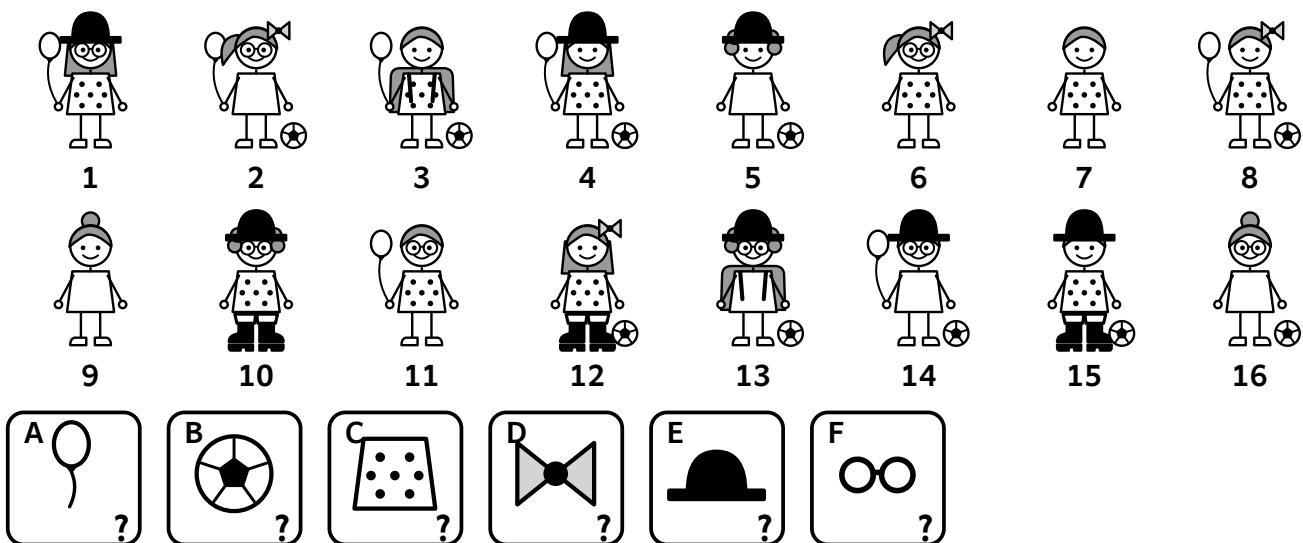
9 Best Question

Omar is thinking of one friend. You ask about a card; Omar says yes or no. You may ask any of the cards, one at a time. What is the fewest number of questions that always finds the friend?



10 Best Question

Hugo is thinking of one friend. You ask about a card; Hugo says yes or no. You may ask any of the cards, one at a time. What is the fewest number of questions that always finds the friend?





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

Learn · Best Question

One plan: B; yes $\rightarrow$ A, no $\rightarrow$ E.

Any plan that always works is right (20 do)

#1

One plan: C; yes $\rightarrow$ E, no $\rightarrow$ A.

Any plan that always works is right (14 do)

Any plan where every friend ends up alone after 3 questions is right.

#2

One plan: D; yes $\rightarrow$ A, no $\rightarrow$ B.

Any plan that always works is right (10 do)

Any plan where every friend ends up alone after 3 questions is right.

#3

One plan: B; yes $\rightarrow$ A, no $\rightarrow$ E.

Any plan that always works is right (16 do)

Any plan where every friend ends up alone after 3 questions is right.

#4

One plan: E; yes $\rightarrow$ A, no $\rightarrow$ B.

Any plan that always works is right (4 do).

Any plan where every friend ends up alone after 3 questions is right.

#5

One plan: A; yes $\rightarrow$ C, no $\rightarrow$ D.

Any plan that always works is right (8 do).

Any plan where every friend ends up alone after 3 questions is right.

#6

One plan: B; yes $\rightarrow$ E, no $\rightarrow$ A.

Any plan that always works is right (4 do).

Any plan where every friend ends up alone after 3 questions is right.

#7

One plan: A; yes $\rightarrow$ C, no $\rightarrow$ C.

Any plan that always works is right (10 do)

Any plan where every friend ends up alone after 3 questions is right.

#8

4 questions

4 questions. Each answer can at best halve the group, and with these cards 4 always leave one friend; 3 can leave two or more still mixed up.

#9

4 questions

4 questions. Each answer can at best halve the group, and with these cards 4 always leave one friend; 3 can leave two or more still mixed up.

#10

5 questions

5 questions. Each answer can at best halve the group, and with these cards 5 always leave one friend; 4 can leave two or more still mixed up.