



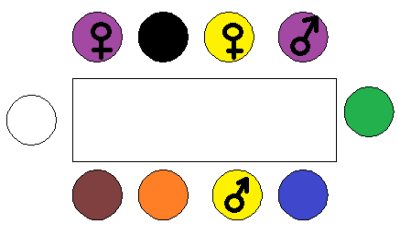
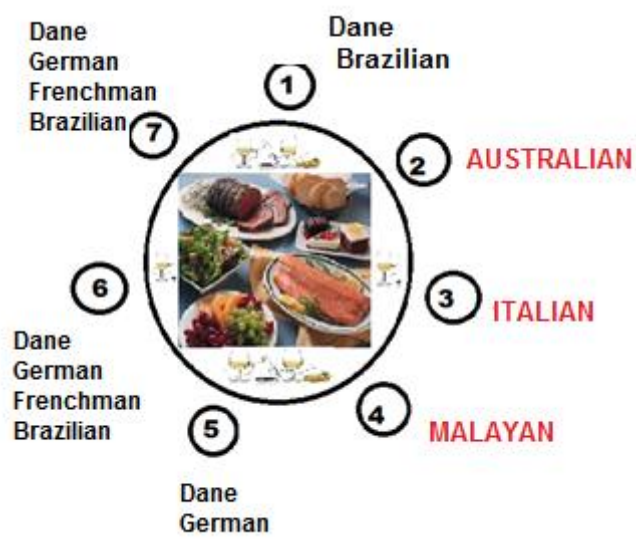


BANQUETS

Age group	Secondary school, Grade 1 - 4			
Competency features	Problem identification 	Consideration of alternatives and appropriate choice 	Problem solving 	Evaluation 
Aims	<ul style="list-style-type: none"> ▪ to solve problems without help ▪ to develop logical thinking ▪ to develop analytical thinking 			
Timing	30 minutes			
Location	indoors			
Resources & materials	Worksheet - Banquet for the coloured people, Worksheet - Banquet for diplomats, writing utensils			
Description				
<ol style="list-style-type: none"> 1. Teacher introduces the activity by pointing out that a number of issues we have to tackle and tasks in real life are approached intuitively. Yet there are situations when we cannot do without hard, logical thinking. Teacher asks the students whether they are aware of some activities that cannot be addressed without logical thought. As an example, he can mention the popular SUDOKU, where chance and intuition play no part. Set logical tasks are part of entry tests to universities, which is why it is advisable to practise now, namely on two such tasks. 2. Teacher hands out the Banquet for the coloured people worksheet, and tells everyone to read through it attentively. They should find a solution, and record it in the table provided. 3. Once the work is over, together they will evaluate the results. Ideally, the situation is charted on the blackboard so that all can understand the solution well. Presentation is made by one of the successful students. 4. Next, teacher hands out the Banquet for diplomats worksheet and the process is repeated. 				

<p>Risks & recommendations</p>	<p>visualisation</p>
<p>Feedback</p>	<p><u>Solutions:</u> Banquet for the coloured people</p>  <p>Banquet for diplomats – correct answers: 1a, 2e, 3e, 4a, 5e, 6d, 7c, 8c</p> 
<p>Application in classes</p>	<p>maths</p>
<p>Notes</p>	

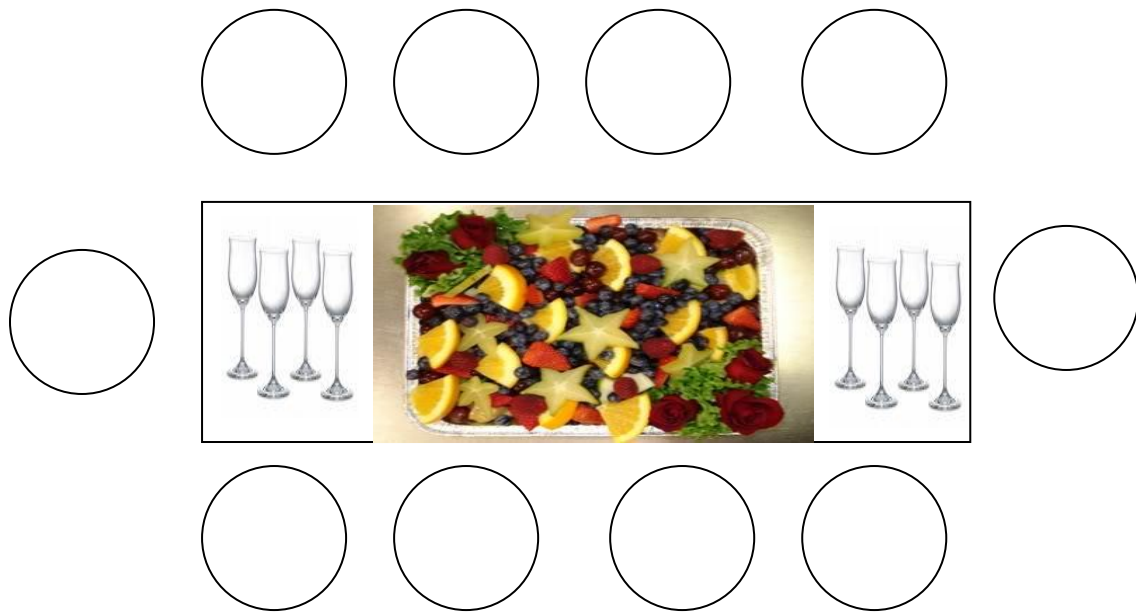
Worksheet

BANQUET FOR THE COLOURED PEOPLE

You are the main organiser of a corporate banquet. Your task is to seat the 10 invited around a rectangular table. There will be one guest on each short side of the table and four guests on each long side of the table. Would you call it easy? Of course, but only until it becomes apparent how the coloured guys get on, who gets or doesn't get on with whom, who wants to or doesn't want to sit next to whom. When creating the seating plan you have to respect the following:

- The long-sighted managing director Mr Green must have the honour to sit at the head of the table.
- Mr Green likes to look at beautiful young women, and has requested Miss White to be seated opposite him. She has no objections, but she wants to have Mrs Brown on her right across the corner of the table, so that they can discuss the latest developments in their favourite soap.
- Mr and Mrs Yellow must sit opposite each other, to be able to easily transfer food from plate to plate, which Mrs Yellow (permanently on a diet) cannot consume.
- Mr Yellow will have Mrs Blue on his right who sits opposite Mr Silver.
- Mr Silver is an advisor to Mr Green, and for that reason he will be seated on the MD's right.
- Mrs Silver will accompany her husband to the banquet; however, she can't stand him or bear to look at him for many years. She certainly doesn't want to see him stuffing himself. That is why she wants to be seated on the same side of the table as him, but as far as possible.
- Mrs Yellow will have Mr Silver on her left.
- Mrs Brown's gossiping gets on the nerves of Mrs Orange. Unfortunately, she will sit next to her yet, fortunately, she will be seated in such a way that her left ear, on which she can't hear, will be pointing in her direction.
- The last place at the table remains for Mr Black. He requested to be surrounded only by women; just consider he is usually late for everything, anyway.

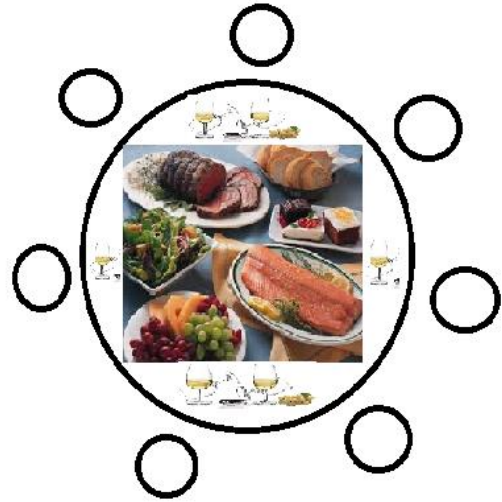
Create the sitting order at the table.



Worksheet **BANQUET FOR DIPLOMATS**

Diplomats have been invited to a marvellous feast. There are seven of them, each from a different corner of the world, and gourmet dishes prepared by an excellent chef are being served to them. The diplomats are from:

Denmark, Malaya, Australia, Germany, Italy, Brazil, and France.



The seats at the table are marked with numerals from 1 to 7, clockwise. This is what we know:

- The lady from Brazil is next to the Frenchman.
- The Malayan gentleman is next to either the Danish gentleman or the German lady.
- The Australian gentleman is seated next to neither the Frenchman nor the German.
- The Italian finds herself between the Australian and Malayan.
- The Australian occupies seat No. 2, with the Italian on his left.

1. If the Dane were seated next to the diplomat from Malaya, who would certainly be in No. 1 chair?
 - a. the Brazilian lady
 - b. the Frenchman
 - c. the Italian lady
 - d. the Dane
 - e. cannot be established with certainty

2. Who could be in chair No. 6?
 - a. only the Danish diplomat or his German colleague
 - b. only the Frenchman, Brazilian, or Dane
 - c. only the Frenchman, Brazilian, or German
 - d. only the German lady, Danish gentleman, or the Frenchman
 - e. Frenchman, Brazilian, Dane, and German

3. Where could be the Danish diplomat seated?
 - a. only at No. 1
 - b. at No. 5 only
 - c. only at Nos. 1, 5, or 6
 - d. only at Nos. 1, 5, or 7
 - e. at Nos. 1, 5, 6, or 7

4. Which of the following statements are certainly true?
 - I. At No. 1, either the Dane or Brazilian can sit.
 - II. The Frenchman could be at No. 1 or 6 or 7.
 - III. The German is not next to the Brazilian

- a. only I.
 - b. only II.
 - c. only III.
 - d. I. and III.
 - e. II. and III.
5. Who could be seated next to the diplomat from Denmark?
- a. only the German and Malayan
 - b. the German, Malayan, and French
 - c. the German, French, Brazilian, Australian
 - d. the Malayan, Australian, German, Brazilian
 - e. the Malayan, Australian, German, Brazilian, French
6. Who certainly does not sit next to the Italian lady?
- a. the Malayan and Brazilian
 - b. the Malayan, Dane, Frenchman
 - c. the Australian and Malayan
 - d. the Dane, German, Brazilian, and French
 - e. cannot be established with certainty
7. If the envoy from Berlin were seated at No. 5, where would her colleague from Copenhagen be?
- a. either at No. 7 or 1
 - b. only at No. 5
 - c. Nos. 6, 7, 1
 - d. nowhere above
 - e. cannot be established with certainty
8. Should the German diplomat be not to the left of the Malayan, who would certainly sit to the right of the Australian?
- a. the Frenchman
 - b. the German
 - c. the Brazilian
 - d. the Italian
 - e. cannot be established with certainty

Table for your answers:

1	2	3	4	5	6	7	8