R U A 2027 Maths Wizard?

Problem 1

A triangle is made up of ten R5 coins. What is the smallest number of coins which must be moved to turn the triangle upside-down?

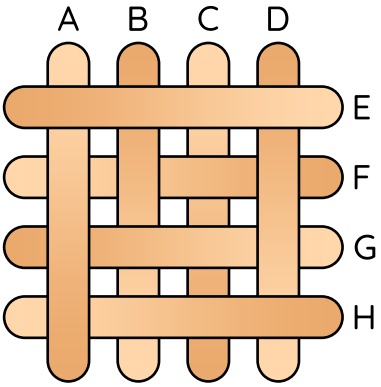


Probleem 1

'n Driehoek bestaan uit tien R5 muntstukke. Wat is die kleinste aantal muntstukke wat 'n mens moet skuif om die driehoek in 'n onderstebo-driehoek te verander?

Problem 2

These rods were laid down in some order on top of each other. What was the order?



Probleem 2

Hierdie stawe is bo-op mekaar neergelê in 'n spesifieke orde. Wat was die orde?

Problem 3

Towns A, B, C, D, E, F, G and H lie on a straight road. The table shows the distances between pairs of towns (for example, D is 19 km from G). Fill in the distances in the rest of the table.

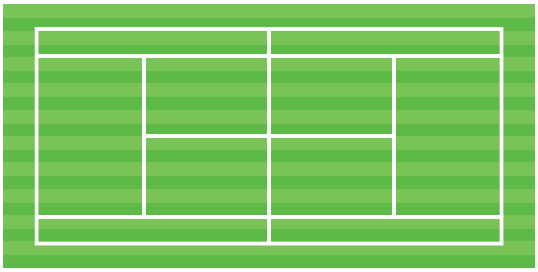
A							
	B						
		C					
24			D				
	25			E			
37		22			F		
			19			G	
		35		21			H

Probleem 3

Agt dorpe A, B, C, D, E, F, G en H lê langs 'n reguit pad. Die tabel gee die afstande tussen elke twee dorpe (D is bv. 19 km van G af). Vul die oorblywende afstande in die leë blokkies in.

Problem 4

How many rectangles of all sizes are there in this diagram of a tennis court?

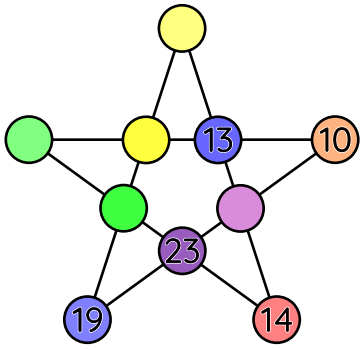


Probleem 4

Hoeveel reghoeke van enige grootte is daar in hierdie diagram van 'n tennisbaan?

Problem 5

The numbers along each line of the magic pentagram add up to 72. Fill in the missing numbers.

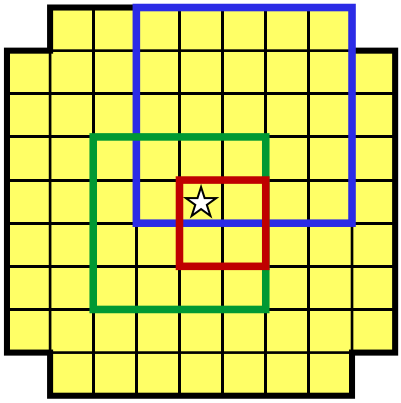


Probleem 5

Die getalle langs enige lyn van die tower-pentagram tel op na 72. Vul die getalle in wat weggelaat is.

Problem 6

In the diagram, three coloured squares are shown, all containing the star. Altogether, how many squares containing the star can be found in the diagram?

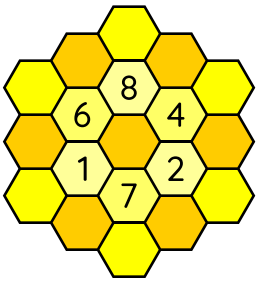


Probleem 6

In die diagram is daar drie gekleurde vierkante wat elkeen die ster bevat. Hoeveel sulke vierkante met die ster binne-in kan in die diagram gevind word?

Problem 7

Arrange all the numbers from 1 to 19 in this honeycomb so that every column or diagonal adds up to 38.



Probleem 7

Rangskik die getalle van 1 tot 19 in hierdie byekorf sodat elke kolom of diagonaal optel tot 38.

How to prove you are a 2027 Maths Wizard?

2027 Grade 4 to 10



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40 High School Learners

→ **International Mathematics Competition**
in Burgas, Bulgaria
1 to 6 July 2027
Maximum 16 Primary School Learners
Maximum 16 High School Learners
Represent South Africa

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2027 Graad 4 tot 10

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