

MATHSWELL 2013

YEAR 9

PROBLEM-SOLVING

Time allowed: 30 minutes

School:	
Names of Students:	1.
	2.
	3.

Total:

Instructions:

Scrap paper and calculators are allowed.

1. One team member collects the first question from the marker's desk. (Please tear each question from the booklet, one at a time.)
2. The group is allowed to work on it for as long as they wish.
3. When they have a solution written on the question paper a team member hands it to the marker.
4. The marker is allowed to give TWO responses:
 - (a) CORRECT – then give the next question is given to the team. Put a ✓ in the 1st column.
 - (b) WRONG – the team has another chance to do the question. Put a × in the 1st column.
When they hand back their 2nd answer, give them the next question and put a ✓ or × in the 2nd column.
 - (c) The team may choose to pass on a question in which case you put a P in the appropriate column.
5. As a marker you need to check the following:
 - Make sure that you give the next question promptly so you don't hold up the team
 - Collect all the questions back from the team so they can't go back to any questions.
6. The team has 30 minutes to do this part of the competition and will get a 2 minute warning.
7. **At the end of this part of the competition the questions can be returned to the team.**
8. Return this answer sheet (with the school and student names) to the Coordinator.

No.	Answer	1st	2nd
1.	729		
2.	16		
3.	8		
4.	10		
5.	10		
6.	84		

7.	42		
8.	10		
9.	52		
10.	20		
11.	5		
12.	5		

13.	$\frac{41}{20}$ (or equivalent)		
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No.	Answer	1st	2nd
14.	66		
15.	10		
16.	54		
17.	7		
18.	15		
19.	4995		
20.	Gene, Bill, Hal (must be this order)		
21.	297		
22.	31		
23.	900		
24.	27.5		
25.	32		