TEACHERS WITHOUT BORDERS PROGRAMME

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In Bill Gates words, at the Mandela Day 'Living Together' address: "Maintaining the quality of this country's higher education system while expanding access to more students will not be easy. But it's critical to South Africa's future" – working together, we can help achieve this."

Contributing schools to date:

Clifton School	Milnerton High	Rustenburg Girls' High	St Peter's
Durban Girls'	Northwood High	St Anne's DC	St Stithians
Fairmont High	Roedean	St John's DSG	Wynberg Boys' High
Herzlia High	Rondebosch Boys'	St Mary's DSG Kloof	Wynberg Secondary

Give answers to 2 decimal places, where applicable.

<u>Question 1</u>
Simplify
1.1 (1)

1.2 (2)

1.3 (2)

1.4 (2)

1.5 (3)

1.6 (3)

1.7 (3)

1.8 (4)

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Question 2

2.1 A man wanted to watch curling at the Sochi Olympics. Each ticket costs 2 500 roubles. The exchange rate is R1 = 3,2353 roubles. Calculate the cost of the ticket in rands. (3)

2.2 I bought a "Rugby Special Pack" consisting of lamb chops, boerewors, biltong and droewors for R450 (including VAT). How much of that price was the VAT? (4)

2.3 An amount of R2 000 is invested at 8% p.a. simple interest. How long will it take for the investment to be worth R3 440? (4)

2.4 R5 500 is invested at 6,5% p.a. compounded monthly for 4 years. Calculate the final amount. (4)

2.5 An investment of R83 000 earned R13 590 compound interest after 6 years in a local bank, interest compounded quarterly. What percentage interest rate was applied? (5)

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Total: 40 marks