

2021 Worksheet 3

Year 11 Life Mathematics

Write the answers in your Exercise Book.

1. The table below shows the time taken to run 100m.

Senior Boy's 100m		
Pita	12.1s	Gold
Kele	12.3s	Silver
John	12.6s	Bronze

- (a) Calculate the **time difference** between bronze and gold medallists? **(1 mark)**
- (b) Calculate Kele's **speed**. **(1 mark)**
- (c) How **far** Kele travelled in 12.1s? **(1 mark)**
- (d) Determine the distance still to be travelled by Kele when Pita crossed the finish line. **(1 mark)**
2. In a netball game Ana scored 7 goals from 13 shots and Keli scored 12 goals from 17 shots.
- (a) Calculate the **success rate** for each player. **(2 marks)**
- (b) Who has the **better** success rate? **(1 mark)**
- (c) If Ana wanted to increase her success rate to 80% or better, what would be the **least** number of goals she could score from 13 shots? **(2 marks)**
3. Shown below is a part of Residents Tax Rates.

Income (\$)	Tax Payable (\$)
0 – 30,000	Nil
30,001 – 50,000	18% of excess over \$30,000
50,001 – 270,000	\$3,600 + 20% of excess over \$50,000

Source: <http://www.frca.org.fj>

Using the table given above, what is the **tax payable** on

- (a) \$29 000? **(1 mark)**
- (b) \$35 000? **(2 marks)**
- (c) \$56 000? **(2 marks)**