YEAR 8 MATHEMATICS WEEK 12 2020 (TERM 1)

Year: 8   **Date: Thursday 23 April 2020**

STRAND: NUMBERS   **TOPIC: Rates**

LESSON OUTCOME: At the end of this lesson student(s) should be able to calculate rate and speed.

Instructions: Hi dear Parents/Guardians and students - In this Lesson students are going to calculate rates and speed and do the selected questions for **Exercise 1.4**.

[*Note that all the Quizzes/Test and or Assignment will be based on the selected questions for each exercise. These lessons are designed for **one hour per Lesson**.]*

What to do: Do the following selected questions

Exercise 1.4: Q1; Q6, Q7
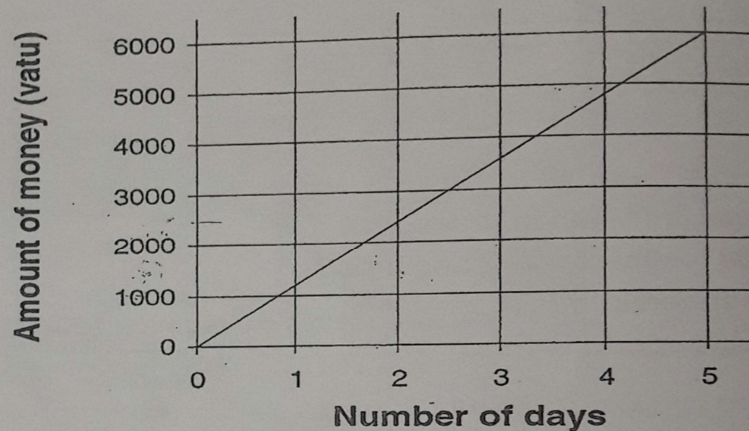
Solutions: Solutions will be available online via

Exercise 1.4 More rates

1. Sam works for 450 vatu per hour. Copy and complete the table to show how much he earned in an 8-hour day.

Hours	1	2	3	4	5	6	7	8
Earnings								

2. Marie works 5 days and she gets paid 6 000 vatu. Here is a graph of her earnings.

Use the graph to find how much she earns in

(a) 2 days   (b) 3 days   (c) ½ day?

3. Copy and complete this table:

Name	Rate of pay (per hour)	Number of hours worked	Total pay (vatu)
Penny	200	4	
Tania	350	6	
Winston	500		3 500
Fiona	250		1 000
Lenny		3	1 200
Noelline		½	325

4. A bottle-washing machine washes 600 bottles per hour.
    (a) What rate is this per minute?
    (b) How long does it take to wash each bottle?

5. Emma runs 30 km in four hours.
    (a) What is her speed in kilometres per hour? (km/h)?
    (b) What is Emma's speed in metres per minute? (m/min)?

6. For each of the following, find the cost of one.

Article	Price (vt)
3 baskets of taro	900
5 baskets of yam	2 200
4 baskets of kumala	1 200
2 hands of banana	1 140
12 pamplemousses	1 440
8 breadfruits	640
3 bundles of cabbage	390
6 baskets of manioc	1 320
9 mangoes	540

7. You want to earn 3 000 vatu for Christmas. You can work 2 hours every Saturday. There are six Saturdays left before Christmas. What rate of pay per hour must you get to make sure you earn 3 000 vatu?