Ministry of Education, Skills, Youth & Information

Primary Exit Profile (PEP 6)

March 2025

Performance Task - Mathematics

Time: 1 hour 30 minutes

Write your name and the name of your school below:

_____

Name of Student

_____

Name of School

_____

DO NOT OPEN THIS BOOKLET UNTIL TOLD TO DO SO

GENERAL INSTRUCTIONS:

This task has four parts: Part 1, Part 2, Part 3, and Part 4.

Part 1 has Questions 1 and 2.
Part 2 has Questions 3A, 3B, 4A, 4B and 4C.
Part 3 has Questions 5A, 5B, 5C and 6A.
Part 4 has Question 6B.

Read the information in each part carefully. Use the information provided to answer ALL questions in each part.

Transportation

Mr. Taylor has decided to get into the transportation business. He wants to buy a motor vehicle to take students and teachers to school. The schools are located in Baker Town. He has to decide whether to buy a bus or a car.

The students and teachers live in Prime Estates, which is also located in Baker Town.

Help Mr. Taylor to:

1. determine the actual distance between different locations

2. calculate the actual number of trips that a bus and a car may make on a given day

3. calculate the amount of money that could be made daily from each vehicle

4. recommend which of the two vehicles he should buy

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Part 1: Baker Town

The diagrams below represent places located in Baker Town.

High School

Primary School

Prime Estates

Question 1

Table 1 shows the units on a map of Baker Town and their actual distance. For every unit given on the map, its actual distance is one hundred metres (**1 unit represents 100 metres**).
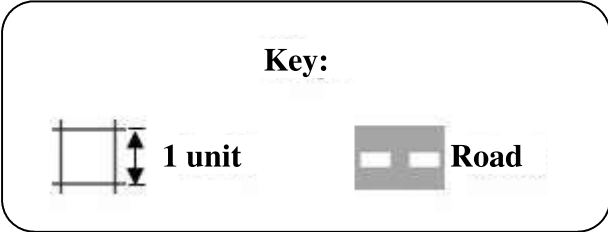
Examine Table 1 carefully, then complete it by writing the appropriate units **OR** metres on the blank spaces provided. **Remember, 1 unit represents 100 metres**

Table 1

Unit (s)	Metres (m)
1	100 m
2	200 m
_____	300 m
6	_____ m
_____	1,000 m
20	2,000 m
30	_____ m

Diagram 1 shows the map of Baker Town. There is also a **KEY** to help you to identify the symbols on the map.

Diagram 1   **Map of Baker Town**

Key:

1 unit   Road

Question 2

For Questions **2A, 2B and 2C**, each row has a statement made about the map given in **Diagram 1**. Place a **tick** (✓) under the appropriate heading to indicate whether the statement made is **TRUE** or **FALSE.**

Remember to use **Diagram 1** to help you. <mark>**Remember 1,000 m = 1 Km**</mark>

	Statement	True	False
2A.	The primary school and the high school are **BOTH** located on Main Street.		
2B.	Mr. Taylor will drive **less than 1,000 metres** between the entrance of the high school and the entrance of the primary school.		
2C.	If Mr. Taylor uses English Road to go from the entrance of Prime Estates to the entrance of the high school he will drive **at least 1.6 Km**		

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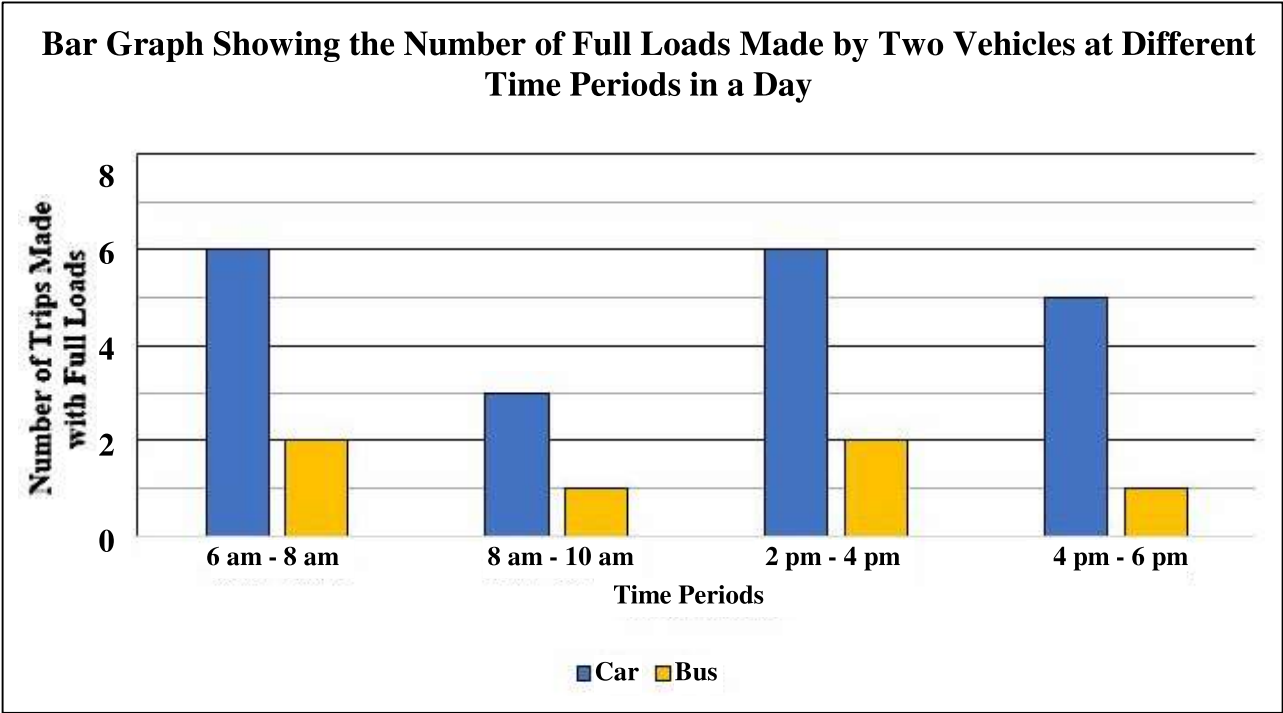# This page is left blank intentionally

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Part 2: Number of Trips

Diagram 2 shows, on average, the number of trips made with **full loads** by each vehicle (car and bus) in a day.

- **Each trip** is made between Prime Estates and the Primary School.
- **A full load** is when all the seats in a vehicle are occupied by passengers.

Diagram 2

Bar Graph Showing the Number of Full Loads Made by Two Vehicles at Different Time Periods in a Day

Number of Trips Made with Full Loads

Time Periods	Car	Bus
6 am - 8 am	6	2
8 am - 10 am	3	1
2 pm - 4 pm	6	2
4 pm - 6 pm	5	1

■ Car   ■ Bus

Question 3

3A. **Based on the graph**, what is the **total number** of trips made with a full load by the car and the bus **in a day** between Prime Estates and the Primary School?
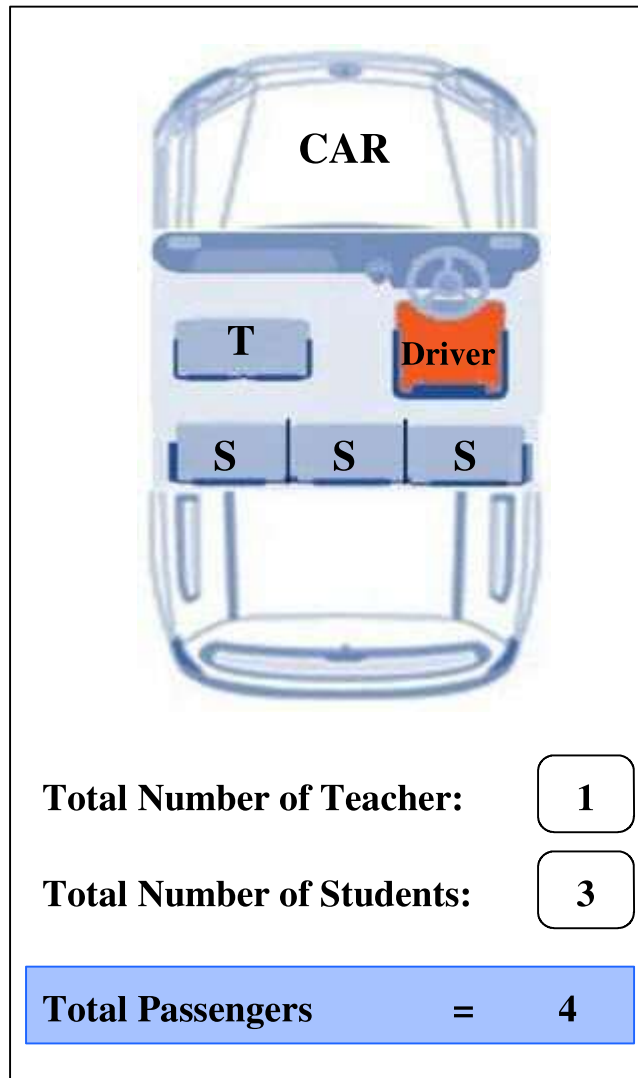
Car

Bus

A full load for a car is when **4 passengers** are seated.

- The ratio of the **number of teachers** to the **number of students** travelling in a **CAR** that has a full load is **1 : 3**

Diagram 3 shows the **total number** of teachers (**labelled T**) and the **total number** of students (**labelled S**) that travel in a **CAR** that has a full load.

Diagram 3

Total Number of Teacher:	1
Total Number of Students:	3
Total Passengers = 4	

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A full load for a bus is when **14 passengers** are seated.

- The ratio of the **number of teachers** to the **number of students** travelling in a **BUS** that has a full load is **1 : 6**

3B. What is the **total number** of teachers and students travelling in a **BUS** that has a full load?

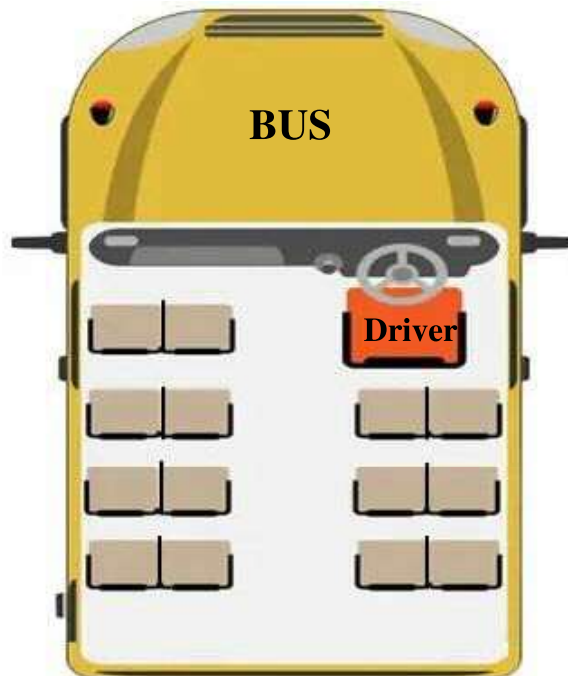**Remember to use the ratio given above.**

Write your response on each seat in the bus below.

On each seat in the bus below:
- write **T** to represent **each teacher** and
- write **S** to represent **each student**

Then in the boxes provided, fill in the:
- the total number of teachers and the total number of students

BUS

Driver

Total Number of Teacher(s):

Total Number of Student(s):

Total Passengers   =   14

Question 4

4A. What is the **total number** of **passengers** (teachers and students) that would have travelled by CAR for the **entire day**? Use your response to question 3A and Diagram 3 to help you.

Show your work in the spaces provided below.

Teachers	**Students**	**Total # of passengers**

4B. What is the **total number** of **passengers** (teachers and students) that would have travelled by BUS for the **entire day**? Use **your response to questions 3A and 3B to help you.**

Show your work in the spaces provided below.

Teachers	**Students**	**Total # of passengers**

4C. Based on your response, **CORRECTLY** complete the sentence given by writing **BUS or** by writing **CAR** on the lines provided.

On average, the _____ takes more passengers on a given day than the _____.

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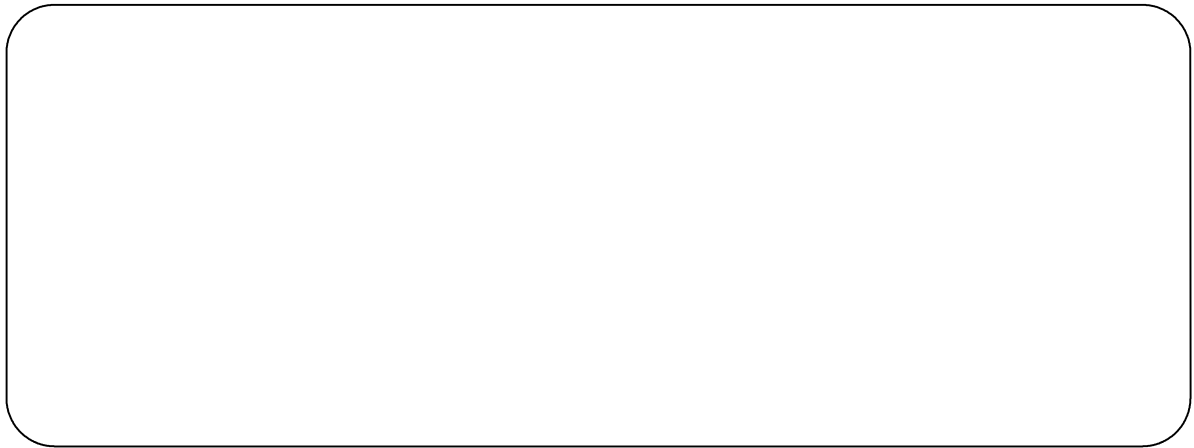
Part 3: Amount of Money to be Made

Question 5

The fare that Mr. Taylor will collect for each teacher and for each student is given below.

- **Teacher** – $64.50 **per kilometre**
- **Student** – $96.65 **flat rate**

  (**Flat rate** means the cost will remain the same no matter the distance travelled.)

5A.   The distance from the entrance of Prime Estates to the entrance of the Primary School is

30 units on the map of Baker Town (Diagram 1).   **CALCULATE** the fare for travel from

Prime Estates to the Primary School for **one (1) teacher**.

Show your work in the spaces provided below.

FARES are rounded to the **nearest hundred dollar.**

5B.   **On the line provided below**, write the fare for **one (1) teacher** to the **nearest hundred**

dollar that you calculated in **question 5A: $ _____**

5C.   The fare for **one (1) student** is **$96.65**

On the line provided below, write the fare for **one (1) student** to the **nearest hundred**

dollar**: $ _____**

Question 6

6A. **Based on your responses to questions 4, 5B and 5C**, what is the **total amount of money** that Mr. Taylor will make in an **entire day** with each vehicle?

Show your work in the space provided below.

CAR	BUS

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Part 4: Recommendation

6B. **Based on your responses throughout the task**, which vehicle should Mr. Taylor buy,

the car OR the bus? Use your calculations (if needed) to help explain your

recommendation.

*In the space provided below, **explain why** you have recommended the car or the bus. Then, tick (✔) the box for the vehicle you have chosen.*

CAR ☐   BUS ☐

Primary Exit Profile - 2025

Name: _____

Date of Birth: _____

School Name: _____

School Code: _____

Centre: _____

Parish: _____

Name of Test: PRIMARY EXIT PROFILE (PEP6) 2025 -MATHEMATICS

GENERAL INSTRUCTIONS

Read the instructions below before answering the questions in the booklet:

1. Write the answer to all questions in your test booklet.

2. Read each instruction carefully, before responding to the questions in each part.

3. Ensure that all questions are answered.

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BOOKLET # ASSIGNED

PEP
Primary Exit Profile
Bringing Abilities to Light

PLEASE DO NOT WRITE IN THIS AREA

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