



Ministry of Education and Youth

Primary Exit Profile (PEP 6)

March 2024

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

MOEY/EAASB/G6PT/Mathematics/24

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GENERAL INSTRUCTIONS:

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

Part 1 has Questions 1, 2A, 2B and 2C.

Part 2 has Questions 3A and 3B.

Part 3 has Questions 4, 5A and 5B.

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

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Easter Concert

Ivory Primary School hosts many events on their playfield. These events include sports days, concerts and football games. The school wants to host an Easter Concert. They hope to raise enough money to paint the school building.



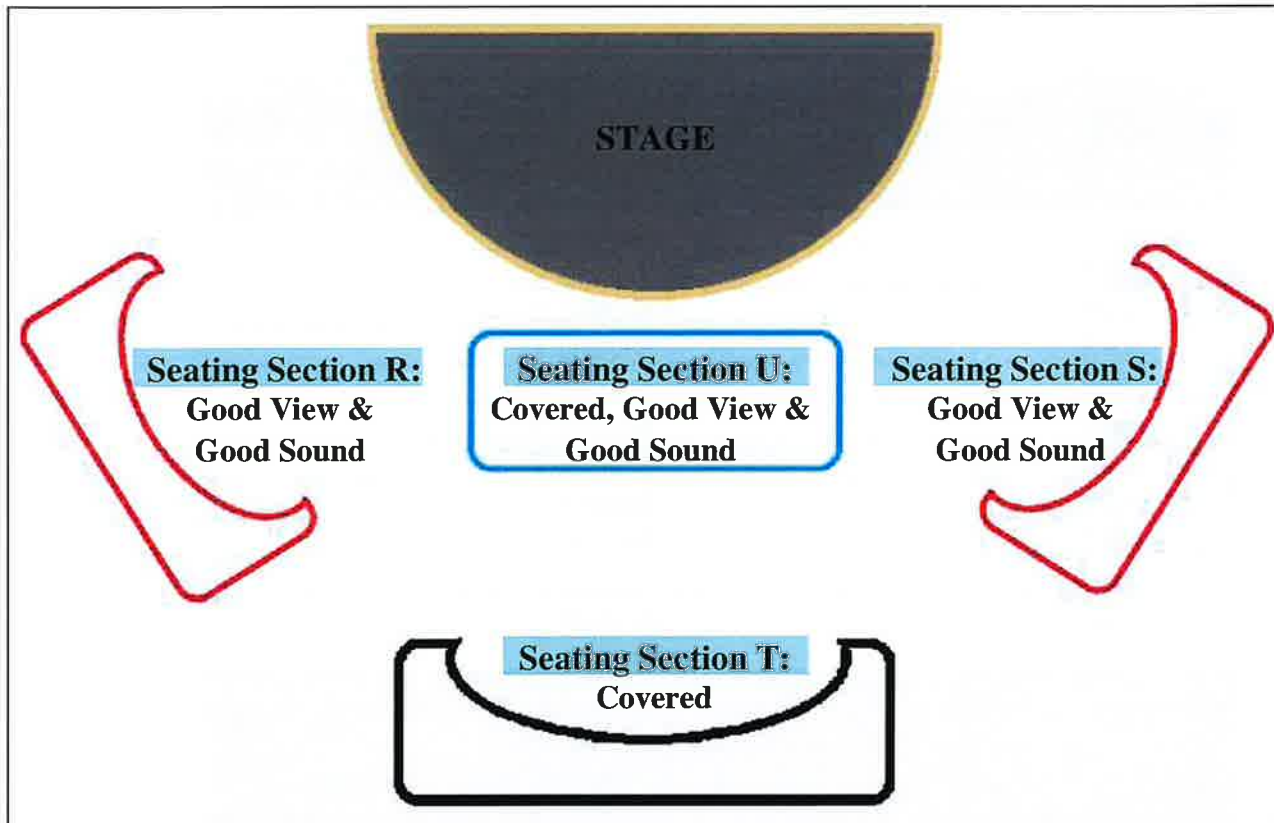
The Principal has invited you to be the student representative on a Planning Committee for the upcoming Easter Concert. The committee will seek to determine:

1. the most preferred seating section of the playfield
2. the ticket price for each seating section
3. the amount of money to be made

Part 1: Most Preferred Seating Section

Diagram 1 shows the area of the playfield that will be used to host the event. It shows the different seating sections and their features.

Diagram 1: Playfield showing the stage, and the features of the different seating sections



Question 1

Table 1 below shows the four seating sections of the playfield and their features. For each seating section shown indicate, by shading, whether each has ‘good view’, ‘good sound’ and/or is ‘covered’.

Table 1: Features of the Four Seating Sections

Seating Section	Good View	Covered	Good Sound
R	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
S	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
T	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
U	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Question 2

A survey was done with 30 students. They were asked which section of the playfield they prefer to sit during events hosted by the school. Their responses are given in Table 2 below.

Section R has been shaded for you.

Table 2: Responses from 30 Students

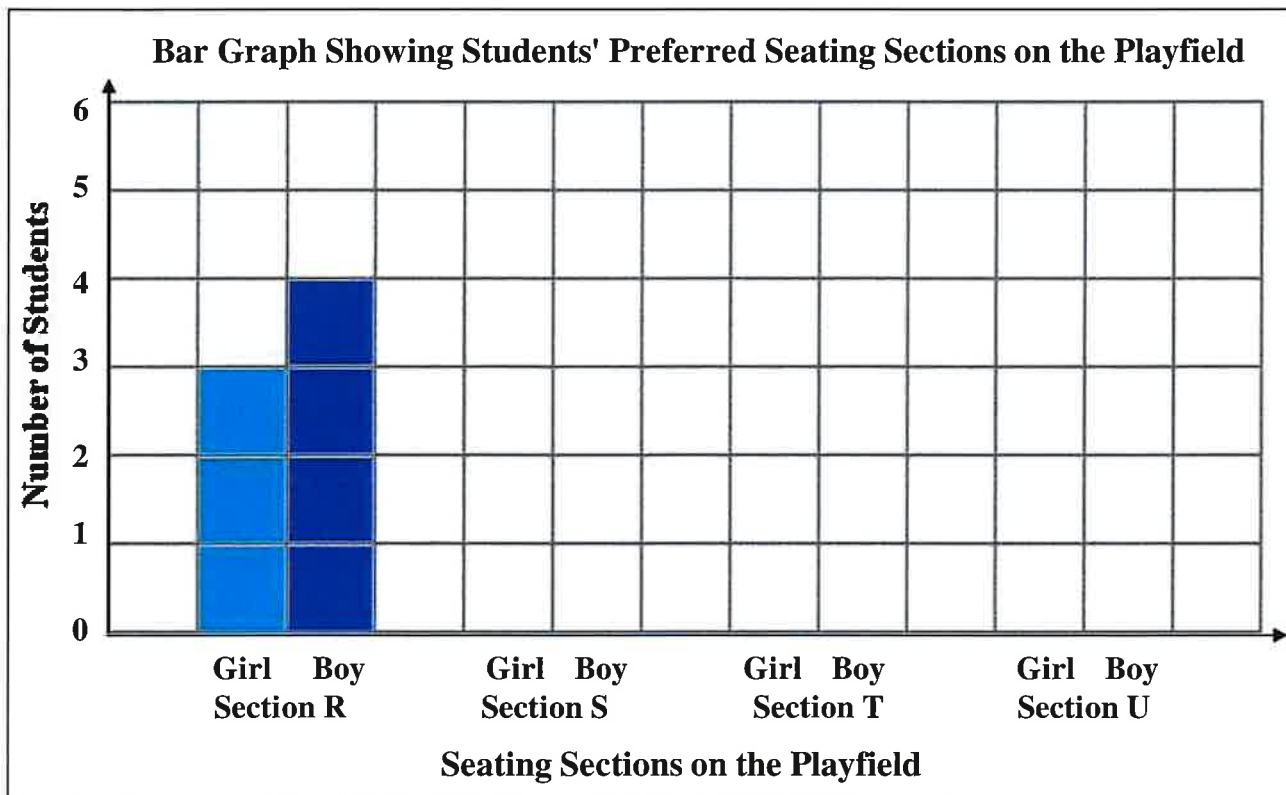
Gender	Which section of the playfield do you prefer to sit?
Girl	Section R
Girl	Section R
Girl	Section R
Girl	Section S
Girl	Section S
Girl	Section S
Girl	Section T
Girl	Section T
Girl	Section T
Girl	Section T
Girl	Section U
Girl	Section U
Girl	Section U
Girl	Section U
Boy	Section R
Boy	Section R
Boy	Section R
Boy	Section R
Boy	Section S
Boy	Section S
Boy	Section S
Boy	Section T
Boy	Section T
Boy	Section U
Boy	Section U
Boy	Section U
Boy	Section U
Boy	Section U

- 2A. Use the information in Table 2 to complete the tally chart given in Table 3. Section R has been completed for you.

Table 3: Tally Chart showing Students' Responses for their Preferred Seating Section

Seating Section	Number of Girls	Number of Boys	Total Number of Students
R			7
S			6
T			7
U			10

- 2B. Use the information in **Table 3** to help you complete the bar graph below. **Section R** has already been completed for you.



2C. Which seating section of the playfield would you say was **most preferred** by students?

Use the information given in **Table 3** to answer **Question 2C**.

(Put a tick beside your selection)

Section R

Section S

Section T

Section U



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Part 2: New Ticket Pricing

When the school hosted past events, **tickets were sold for \$500 each**, and the students were allowed to sit wherever they liked.

The Planning Committee wants to maximize the total amount of money they can earn. For the Easter Concert they want to:

- increase **the cost of tickets for all four seating sections**
- increase the ticket prices, based on the features that each seating section provides

Table 4 shows the planned increase in ticket prices for the Easter Concert, based on the different features.

Table 4: Percentage Increase for the Four Seating Sections

Seating Section	Percentage Increase
R	20%
S	20%
T	10%
U	50%

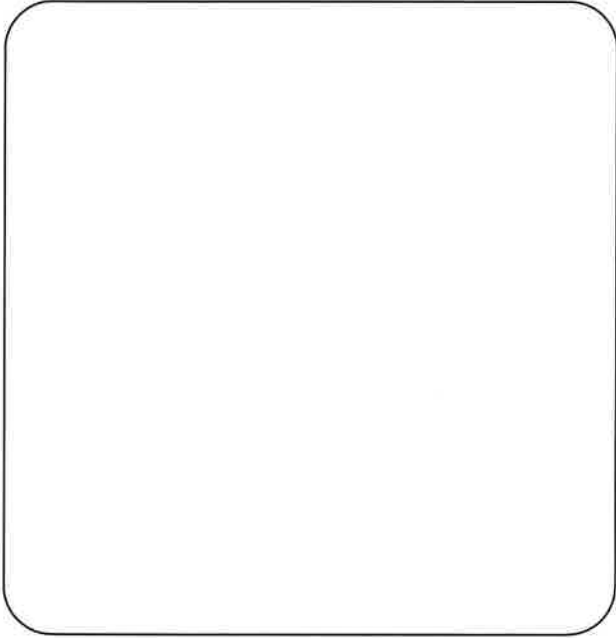
Question 3

- 3A. Using the information given in **Table 4**, calculate the amount by which the **ticket price will be increased** for each seating section.

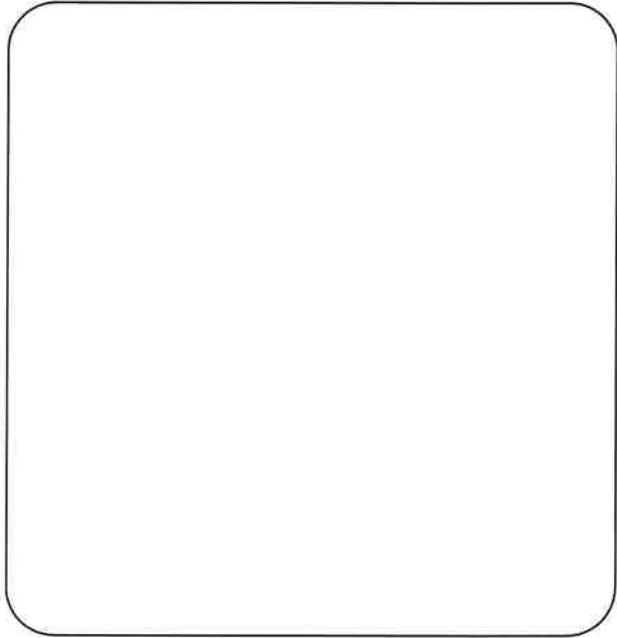
Remember the original price for a ticket was \$500.

Show your work in the spaces provided below.

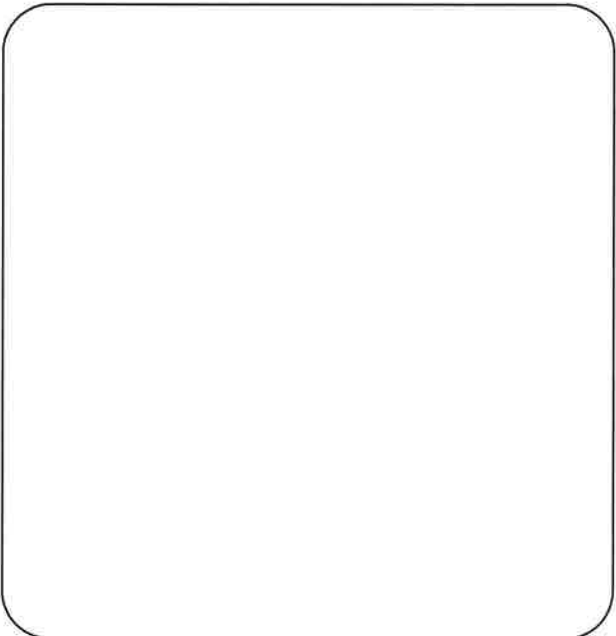
Section R



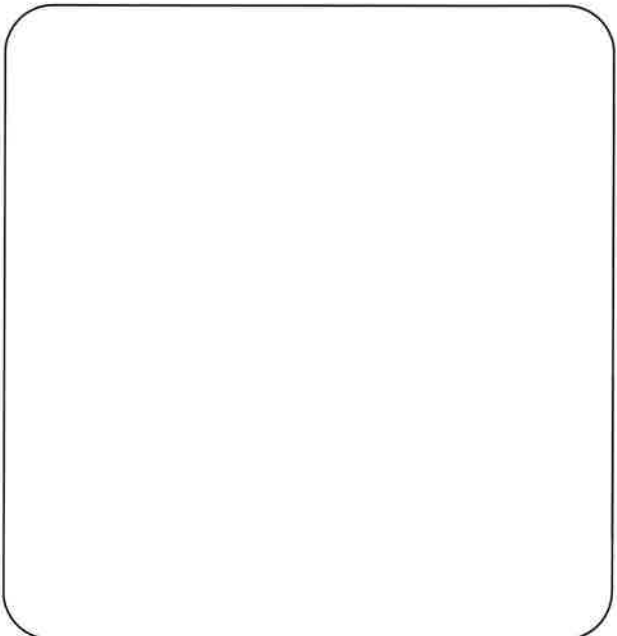
Section S



Section T



Section U



3B. Based on your answer in **Question 3A**, what are the new ticket prices for each seating section?

(Write the new price in the box for each seating section)

Section R

Section S

Section T

Section U



Part 3: Earnings

The number of seats in each seating section of the playfield is as follows:

Section R – 100 seats

Section S – 100 seats

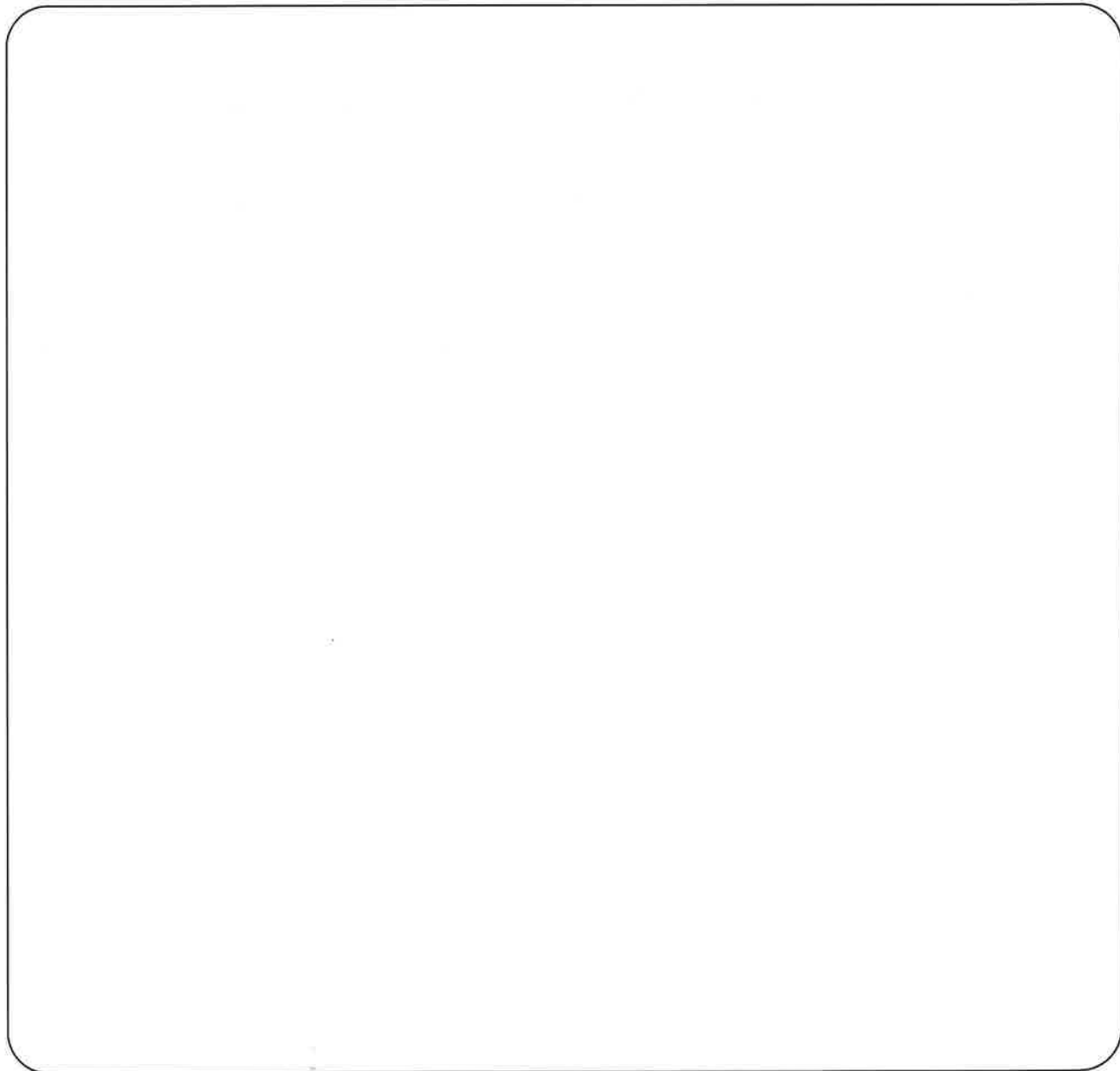
Section T – 120 seats

Section U – 80 seats

Question 4

Based on the **new ticket prices** from **Question 3B**, how much money will the Planning Committee collect if **ALL** the tickets for the Easter Concert are sold?

Show your work in the space provided below.



Question 5

The Planning Committee realized that even with the increase in ticket prices they would still not make enough money to paint the school. The overall cost for the paint is **two hundred and fifty thousand dollars (\$250,000)**. The committee wants to do a further increase to **ONE** of the seating sections. The following **recommendations** were made:

- i. increase the price for the **SMALLEST** seating section
- ii. increase the price for the **LARGEST** seating section

5A. Which recommendation should the committee choose?

(Put a tick beside your selection)

i. Increase the price for the SMALLEST seating section

ii. Increase the price for the LARGEST seating section

5B. Give **ONE** reason to support the recommendation you made in the space provided below. **Be sure to use the information provided throughout the task to support your answer.**

