

GREENHILL ACADEMY

SENIOR ONE MATHEMATICS HOLIDAY WORK.

INSTRUCTIONS.

- Use your classwork books for the holiday assignment.
- Copy the work down and answer the questions given in your classwork books.

Activity 1

- a) Write 3:20 pm using the 24-hour clock.
- b) A television program starts at 09:30. The program lasts 40 minutes. At what time does the program end?
- c) i) Ali arrived at an airport at 06:35. His plane took off on Saturday at 09:15. How long after Ali arrived at the airport did his plane take off? (Give your answers in hours and minutes)
- ii) The flight took him 16 hours, 35 minutes, state the day and the time he gets to his destination.

Activity 2

The cost of each visit to the car park is shown in the table.

Length of visit	Cost (Shs.)
Up to 20 minutes	free
More than 20 minutes and up to 2 hours	2,500
More than 2 hours and up to 4 hours	4,500
More than 4 hours and up to 8 hours	8,500
More than 8 hours and up to 24 hours	12,000

1. Smith arrives at 11 40 and leaves at 15 30. Find the cost of his visit.

2. Rehema leaves the car park at 17 50 and pays Shs 8500

- a) Work out the earliest time she could have arrived at the car park.
- b) Work out the change she receives from a Shs 20,000

3. Patel bought a weekly car ticket for Shs 26,000. That week, he visited the car park four times, spending; 12 minutes, $6\frac{1}{2}$ minutes, 11 hours and $9\frac{1}{4}$ hours. Work out how much he saved by buying a weekly ticket.

Activity 3 Situation of Integration:

A primary school has two sections, that is, lower primary (P1-P4) and upper primary (P5-P7). The head teacher of primary school needs to draw a timetable for both sections. The sections should start and end their morning lessons at the same time before break time, start and end their break time at the same time. The after-break lessons should start at the same time. The lunchtime for both sections should start at the same time.

Support: The time to start lessons for the two sections is 8.00am. The duration of the lesson for the lower section is 30 minutes and that of the upper section is 40 minutes.

Resources: Knowledge of fractions, percentages, natural numbers, factors, multiples, lowest common multiples and of time.

Task: Help the head teacher by drawing the timetable up to lunch break for the two sections. How many lessons in total does each section have up to lunch break?

Express the total number of lessons for the lower primary as a fraction of the total number of lessons for the whole School. (Consider lessons up to lunch break)

NO ONE HAS A VOTE ON YOUR DESTINY.

WE WISH YOU A MERRY CHRISTMAS SEASON AND A PROSPEROUS NEW YEAR.



EXTEND YOUR HORIZONS.