



Datum / Date:	SEPTEMBER 2024
Tyd / Time:	3 hours
Punte / Marks:	150
Grader / Grade:	12
Vak / Subject:	Mathematics
Version / Paper:	1

Naam en Van / Name and Surname: _____

General instructions for the writing of exams:

1.	Quickly scan through your entire paper.
2.	Read the question twice before you begin.
3.	Make sure to answer ALL questions.
4.	Write neatly and legibly.
5.	If you struggle too much with a question, move on to the next one and return once you have answered all the other questions.
6.	If the question calls for a longer answer, plan before you start writing.
7.	For any answer longer than 1-2 words, always write in full sentences.
8.	Make sure every point you make refers to the central question.
9.	Use correct grammar, spelling, and punctuation to the best of your ability.
10.	If you make a mistake, cross it out clearly with a single, neat line and write the correct answer instead.
11.	Number the answers correctly according to the numbering system used in this question paper.
12.	Present your answers according to the instructions for each question.

Good luck with your exam!

Topics covered in this paper:

- Data Handling
- Regression and Correlation
- Analytical Geometry
- Geometry in the Cartesian Plane
- Circle Geometry
- Trigonometry
- Functions and Graphs
- Trigonometric Identities and Solutions

QUESTION 1

- 1.1 In a professional development workshop, each participant was given a similar task to complete. The time taken (in minutes) by each participant to finish the task is shown in the table below:

TIME TAKEN (t, IN MINUTES)	NUMBER OF PARTICIPANTS
$2 < t \leq 6$	2
$6 < t \leq 10$	10
$10 < t \leq 14$	9
$14 < t \leq 18$	7
$18 < t \leq 22$	8
$22 < t \leq 26$	7
$26 < t \leq 30$	3

- 1.1.1 How many children completed the puzzle? (1)
- 1.1.2 Calculate the estimated mean time taken to complete the puzzle. (2)
- 1.1.3 Complete the cumulative frequency column in the table. (2)
- 1.1.4 Draw a cumulative frequency graph (ogive) to represent the data. (2)
- 1.1.5 Use the graph to determine the median time taken to complete the task. (2)

[10]

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