

ANSWER BOOK/ ANTWOORDBOEK

PLACE BARCODE HERE/ PLAAS STREPIEKODE HIER

EXAMINATION/ EKSAMEN	NATIONAL SENIOR CERTIFICATE/ NASIONALE SENIOR SERTIFIKAAT
GRADE/ GRAAD	12
DATE/ DATUM	MAY/JUNE 2026 MEI/JUNIE 2026
SUBJECT/ VAK	MATHEMATICS / WISKUNDE
PAPER/ VRAESTEL	2
MARK TOTAL/ PUNTETOTAAL	150
DURATION (HOURS)/ TYDSDUUR (UUR)	3
NUMBER OF PAGES/ AANTAL BLADSYE	30



SOUTH AFRICAN COMPREHENSIVE ASSESSMENT INSTITUTE
SUID-AFRIKAANSE KOMPREENSIEWE ASSESSERINGSINSTITUUT



INSTRUCTIONS AND INFORMATION

Read the following instructions carefully before answering the questions.

1. This question paper consists of **NINE** questions.
2. Answer **ALL** the questions.
3. Use the provided **ANSWER BOOKLET** to answer the questions.
4. Clearly show **ALL** calculations, diagrams, graphs, *et cetera* that you have used in determining your answers.
5. Answers only will **NOT** necessarily be awarded full marks.
6. You may use an approved scientific calculator (non-programmable and non-graphical), unless stated otherwise.
7. If necessary, round off answers to **TWO** decimal places, unless stated otherwise.
8. Diagrams are **NOT** necessarily drawn to scale.
9. An information sheet with formulae is included at the end of the question paper.
10. Write neatly and legibly, in **BLUE** ink only.

INSTRUKSIES EN INLIGTING

Lees die volgende instruksies noukeurig deur voordat jy die vrae beantwoord.

1. *Hierdie vraestel bestaan uit **NEGE** vrae.*
2. *Beantwoord **AL** die vrae.*
3. *Gebruik die **ANTWOORDBOEK** wat voorsien is om die vrae te beantwoord.*
4. *Toon **ALLE** berekeninge, diagramme, grafieke, ens. wat jy gebruik het om die antwoord te bepaal duidelik aan.*
5. *Slegs antwoorde sal **NIE** noodwendig volpunte verdien nie.*
6. *Jy mag 'n goedgekeurde wetenskaplike sakrekenaar (nie-programeerbaar en nie-grafies) gebruik, tensy anders vermeld.*
7. *Indien nodig, rond antwoorde af tot **TWEE** desimale plekke, tensy anders vermeld.*
8. *Diagramme is **NIE** noodwendig volgens skaal geteken nie.*
9. *'n Inligtingsblad met formules is aan die einde van die vraestel ingesluit.*
10. *Skryf netjies en leesbaar, slegs in **BLOU** ink.*

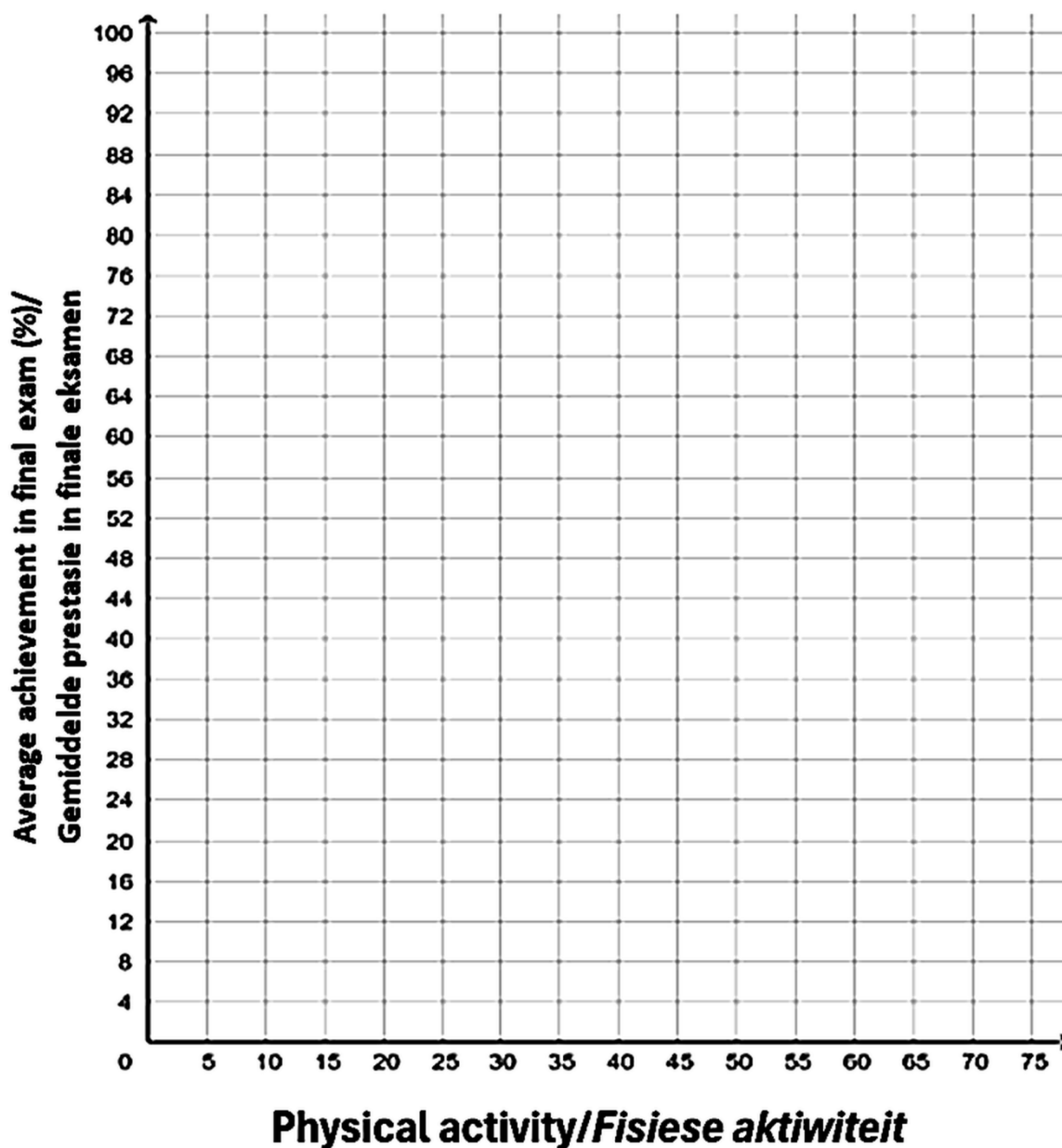


QUESTION 1/ VRAAG 1

Physical Activity (Hours) Fisiese Aktiwiteit (Ure)	5	15	20	30	35	45	50	55	60	70	75
Average academic performance (%) Gemiddelde akademiese prestasie (%)	20	32	44	52	56	68	72	72	84	88	96

1.1.1 & 1.1.3

Scatterplot of physical activity vs Academic achievement/ Spreidiagram van fisiese aktiwiteit vs Akademiese prestasie



(3) & (3)



1.1.2

(2)

1.1.4

(2)

1.1.5

(3)

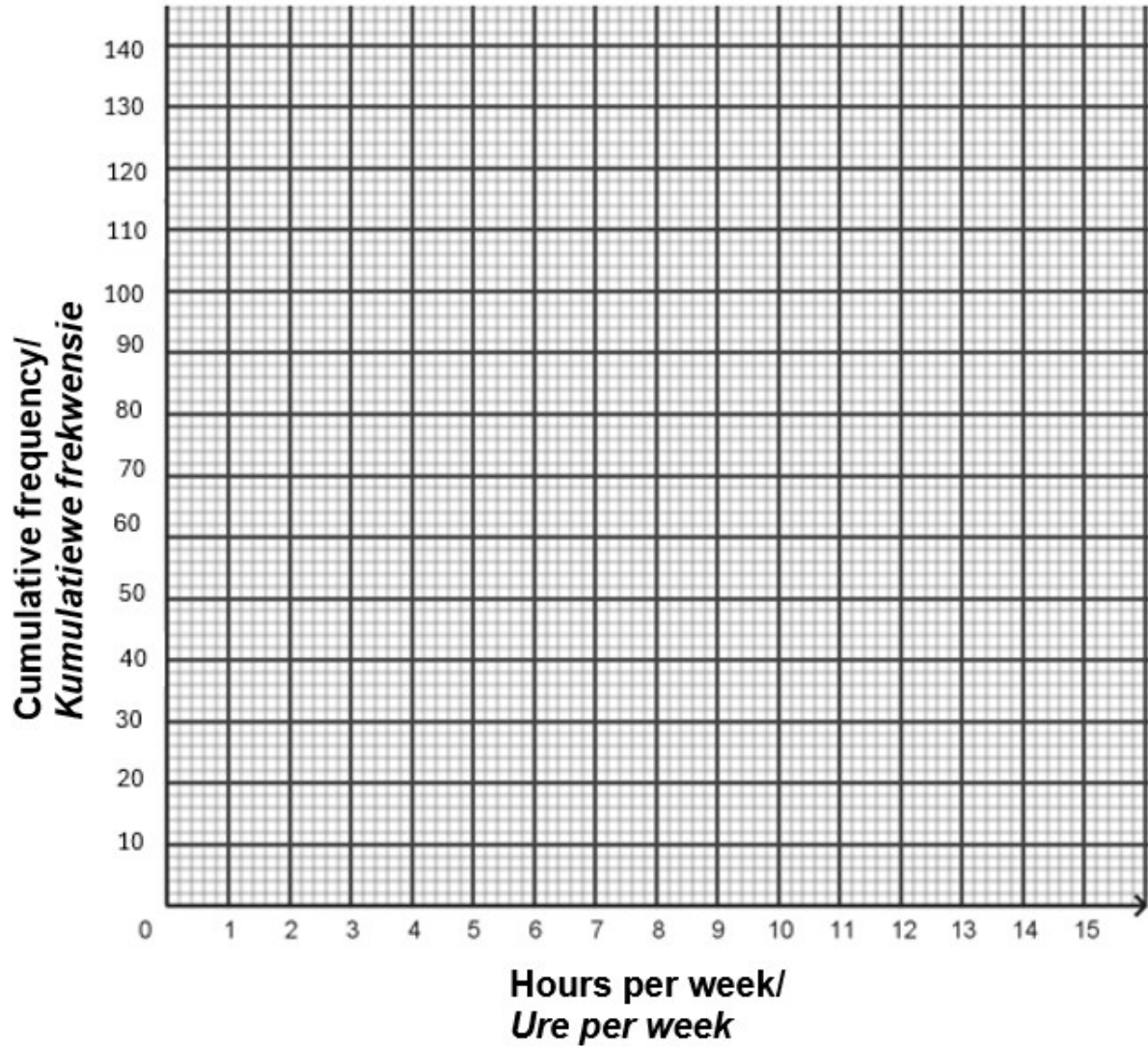
1.2.1

(2)



1.2.2 & 1.2.3

**Ogive of learners weekly participating in physical fitness/
 Ogief van leerder se weeklikse deelname aan fisiese aktiwiteite**



(3) & (2)

[20]



2.2

(5)

[illegible]

(6)

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(3)



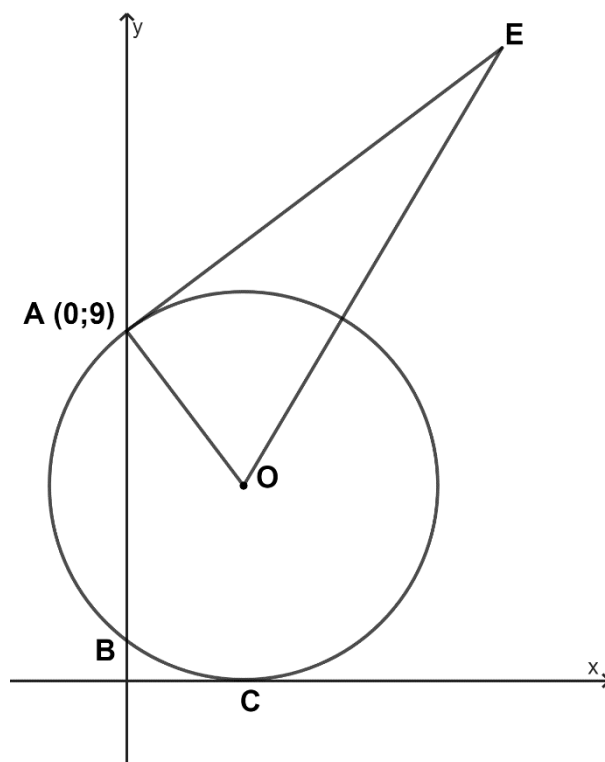
2.5

(4)

[22]



QUESTION 3/ VRAAG 3



3.1

(4)



3.2

(1)

3.3

(4)

3.4

(4)



3.5

(3)

[16]



QUESTION 4/ VRAAG 4

4.1.1

(2)

4.1.2

(3)

4.2

[illegible]

(6)

4.3.1

[illegible]

(4)

4.3.2

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(6)

4.4

[illegible]

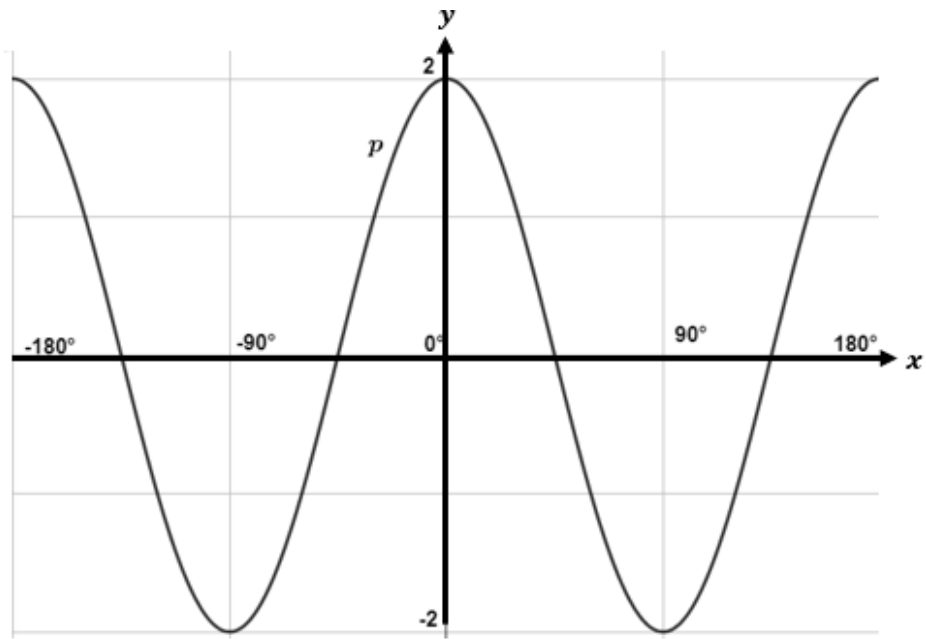
(6)

[27]



QUESTION 5/ VRAAG 5

5.1



(4)

5.2

(2)

5.3

(6)



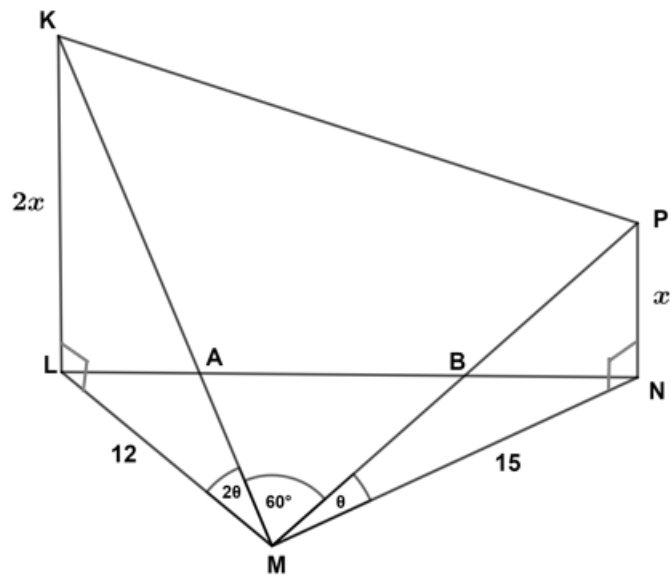
5.4

(2)

[14]



QUESTION 6/ VRAAG 6



6.1

(2)

6.2

(5)



6.3

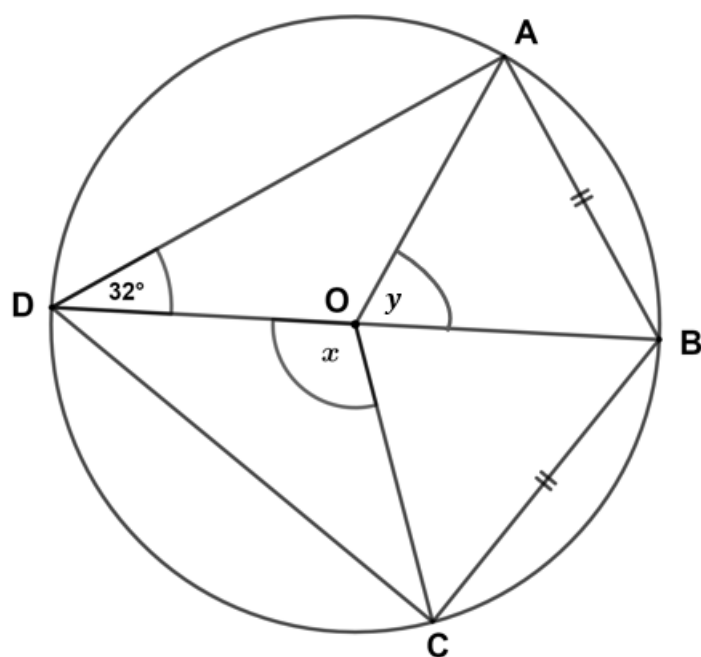
(2)

[9]



QUESTION 7/ VRAAG 7

7.1



7.1.1

(4)

7.1.2

(2)

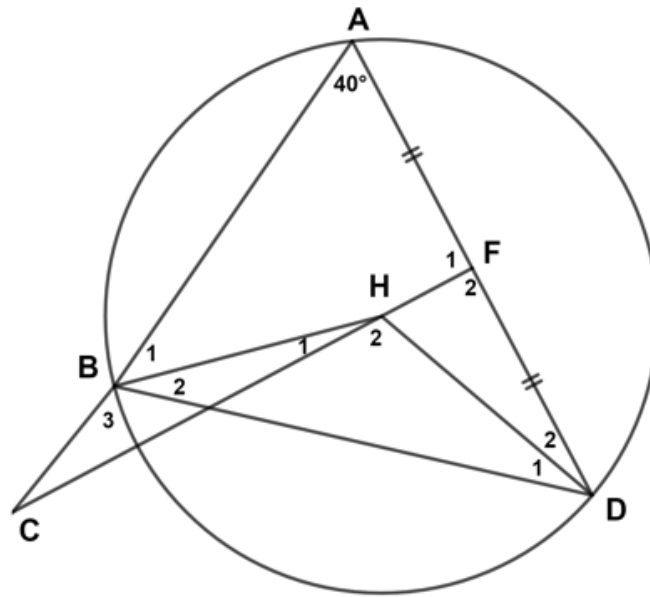
[illegible]

[11]



QUESTION 8/ VRAAG 8

8.1



8.1.1

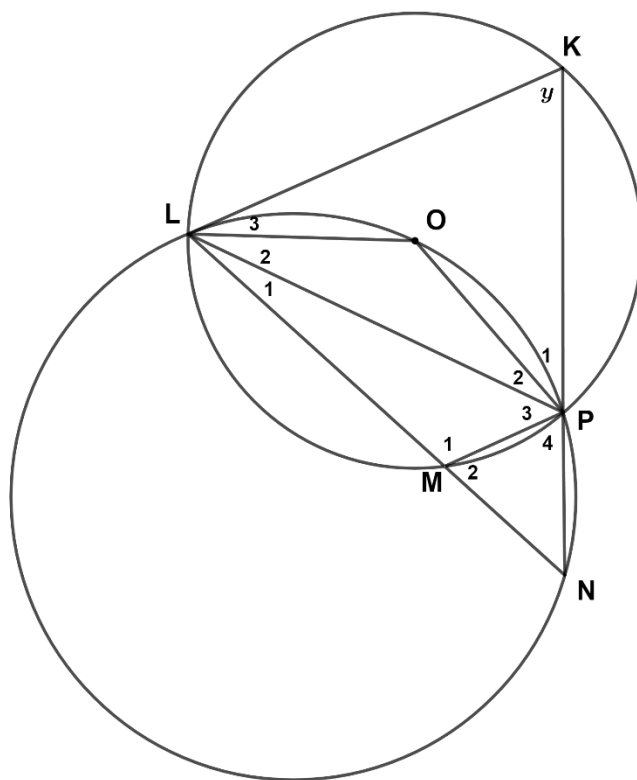
(2)

8.1.2

(2)



8.2



8.2.1

(2)

8.2.2

(3)



8.2.3

(5)

[14]

The diagram shows a circle with several points and lines:

- Points:** D, E, F, G, H are located on the circumference of the circle.
- Triangle DEF:** Formed by points D, E, and F. The side DF is labeled with the variable p .
- Chord FH:** A horizontal line segment connecting points F and H.
- Point G:** Located at the bottom of the circle's circumference.
- Lines FG and EG:** Connect point G to points F and E respectively.
- Angles:**
 - At vertex F: Angle DFE is labeled 1, angle EFH is labeled 2, and angle HFG is labeled 3.
 - At vertex E: Angle FED is labeled 1, and angle FEH is labeled 2.
 - An angle between line DE and line FE is labeled x .
- Tick Marks:**
 - A single tick mark is on segment DF.
 - A double tick mark is on segment FE.
 - A single tick mark is on segment FG.
 - A single tick mark is on segment FH.
 - A double tick mark is on segment EH.

[illegible]

Please turn over
Blaai asb. om

(1)

[illegible]

(4)

(1)

[17]

GRAND TOTAL: [150]

[illegible]

