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**NATIONAL  
SENIOR CERTIFICATE**

**LEARNER'S NAME**  
*LEERDER NAAM*

**GRADE 12/GRAAD 12**

**SEPTEMBER 2016**

**MATHEMATICS P2 / WISKUNDE V2**  
**SPECIAL ANSWER BOOK / SPESIALE ANTWOORDEBOEK**

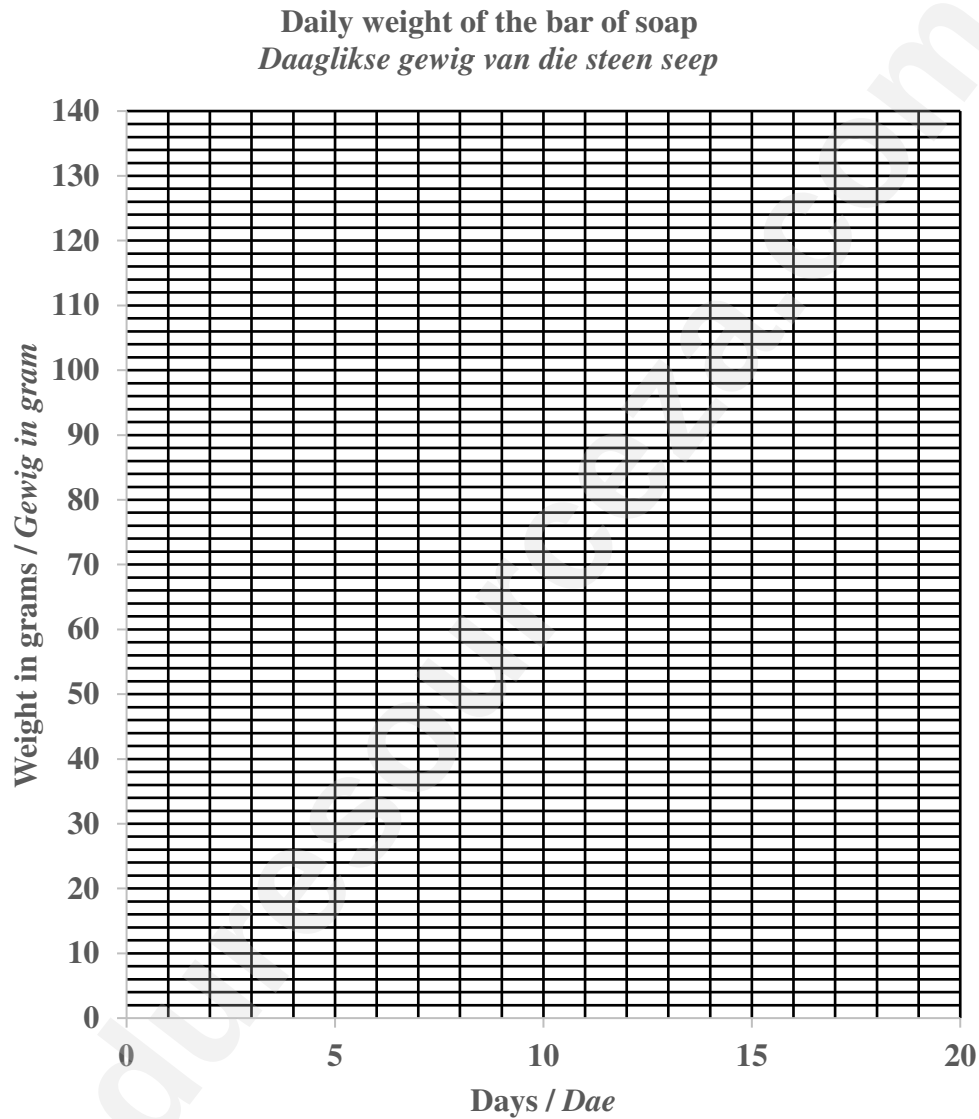
| <b>QUESTION<br/>VRAAG</b> | <b>MARK<br/>PUNT</b> | <b>INITIAL<br/>PARAAF</b> | <b>MOD.<br/>GEMOD.</b> |
|---------------------------|----------------------|---------------------------|------------------------|
| 1                         |                      |                           |                        |
| 2                         |                      |                           |                        |
| 3                         |                      |                           |                        |
| 4                         |                      |                           |                        |
| 5                         |                      |                           |                        |
| 6                         |                      |                           |                        |
| 7                         |                      |                           |                        |
| 8                         |                      |                           |                        |
| 9                         |                      |                           |                        |
| 10                        |                      |                           |                        |
| 11                        |                      |                           |                        |
| <b>TOTAL<br/>TOTAAL</b>   |                      |                           |                        |

This SPECIAL ANSWER BOOK consists of 21 pages.  
*Hierdie SPESIALE ANTWOORDEBOEK bestaan uit 21 bladsye.*

**QUESTION 1 / VRAAG 1**

|              |     |     |     |    |    |    |    |    |
|--------------|-----|-----|-----|----|----|----|----|----|
| Day/Dag      | 0   | 1   | 4   | 6  | 9  | 12 | 17 | 19 |
| Weight/Gewig | 124 | 121 | 103 | 90 | 71 | 50 | 27 | 16 |

1.1



(3)

1.2

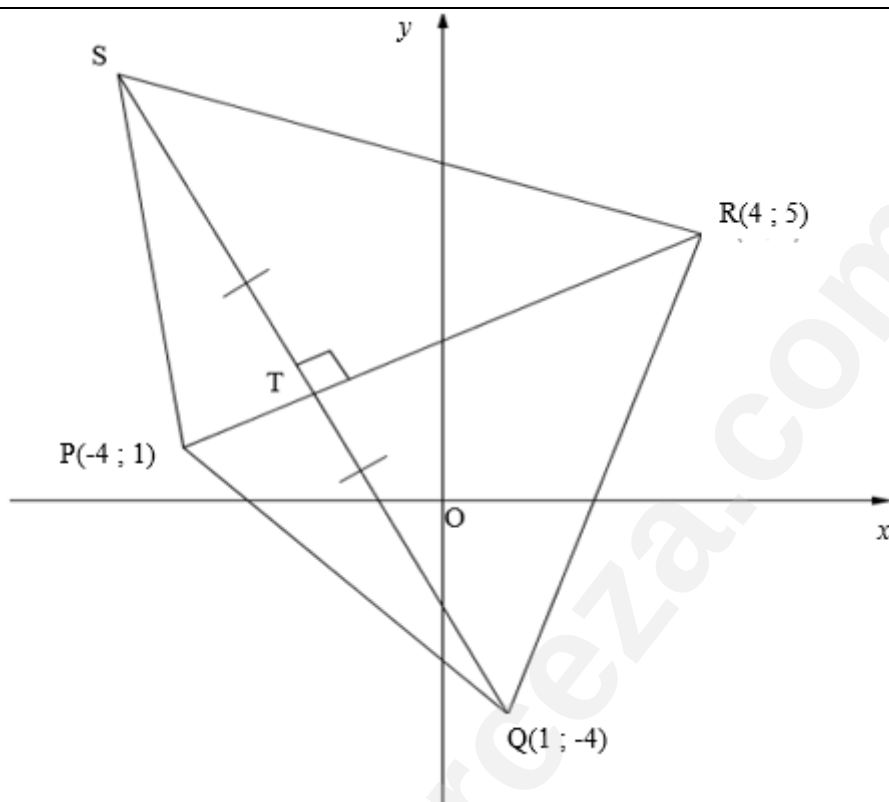
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|  |
|  |
|  |
|  |

(3)

|     |  |      |
|-----|--|------|
| 1.3 |  | (2)  |
|     |  |      |
| 1.4 |  | (2)  |
|     |  |      |
|     |  |      |
| 1.5 |  | (1)  |
|     |  |      |
| 1.6 |  | (1)  |
|     |  | [12] |

| QUESTION 2 / VRAAG 2                                                                                                                        |  |     |
|---------------------------------------------------------------------------------------------------------------------------------------------|--|-----|
| $  \begin{array}{r l}  5 & 7 \\  4 & 3\ 4\ 4 \\  3 & 1\ 1\ 1\ 4\ 6\ 8 \\  2 & 2\ 4\ 8\ 9\ 9 \\  1 & 5\ 5\ 6\ 7 \\  0 & 3\ 5  \end{array}  $ |  |     |
| 2.1                                                                                                                                         |  | (1) |
| 2.2                                                                                                                                         |  | (1) |
| 2.3                                                                                                                                         |  | (2) |
| 2.4                                                                                                                                         |  | (1) |
| 2.5                                                                                                                                         |  | (3) |
|                                                                                                                                             |  | [8] |

## QUESTION 3 / VRAAG 3



3.1

(2)

3.2

(3)

|     |  |      |
|-----|--|------|
|     |  |      |
| 3.3 |  | (5)  |
|     |  |      |
|     |  |      |
|     |  |      |
|     |  |      |
|     |  |      |
|     |  |      |
| 3.4 |  | (3)  |
|     |  |      |
|     |  |      |
|     |  |      |
|     |  |      |
| 3.5 |  | (5)  |
|     |  |      |
|     |  |      |
|     |  |      |
|     |  |      |
|     |  |      |
|     |  | [18] |



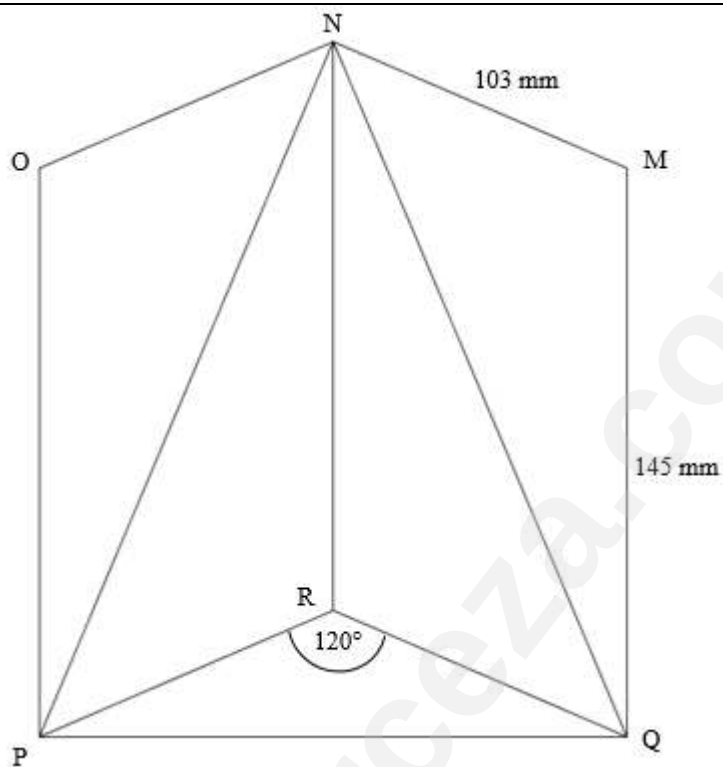
|     |  |             |
|-----|--|-------------|
| 4.2 |  | (3)         |
|     |  |             |
|     |  |             |
|     |  |             |
|     |  |             |
| 4.3 |  | (4)         |
|     |  |             |
|     |  |             |
|     |  |             |
|     |  |             |
| 4.4 |  | (1)         |
|     |  |             |
| 4.5 |  | (2)         |
|     |  |             |
|     |  |             |
|     |  |             |
|     |  |             |
| 4.6 |  | (6)         |
|     |  |             |
|     |  |             |
|     |  |             |
|     |  |             |
|     |  |             |
|     |  |             |
|     |  | <b>[20]</b> |

| QUESTION 5 / VRAAG 5 |  |     |
|----------------------|--|-----|
|                      |  |     |
| 5.1.1                |  | (3) |
|                      |  |     |
|                      |  |     |
|                      |  |     |
| 5.1.2                |  | (4) |
|                      |  |     |
|                      |  |     |
|                      |  |     |
|                      |  |     |
|                      |  |     |
|                      |  |     |
| 5.2                  |  | (7) |
|                      |  |     |
|                      |  |     |
|                      |  |     |
|                      |  |     |
|                      |  |     |
|                      |  |     |
|                      |  |     |
|                      |  |     |
|                      |  |     |

|       |  |      |
|-------|--|------|
| 5.3.1 |  | (4)  |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
| 5.3.2 |  | (3)  |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  | [21] |

| QUESTION 6 / VRAAG 6 |  |      |
|----------------------|--|------|
| 6.1                  |  |      |
|                      |  |      |
|                      |  |      |
|                      |  |      |
|                      |  |      |
|                      |  | (5)  |
| 6.2                  |  | (6)  |
| 6.3                  |  | (1)  |
| 6.4                  |  | (2)  |
|                      |  |      |
|                      |  | [14] |

## QUESTION 7 / VRAAG 7



7.1

(2)

7.2

(2)

7.3

(2)

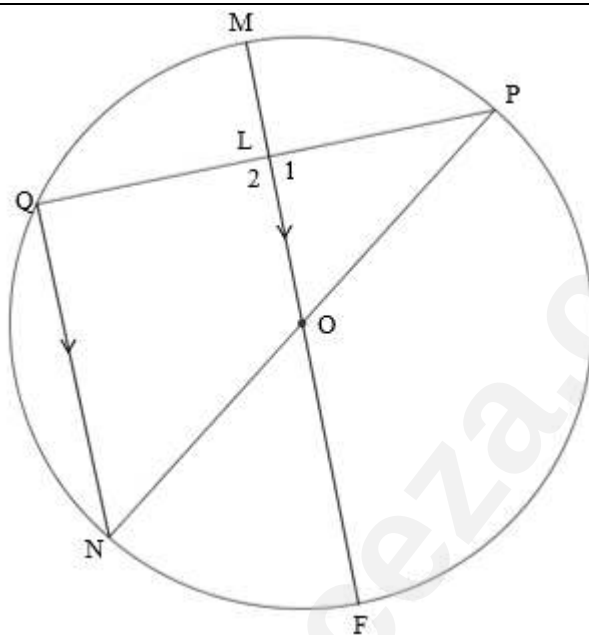
**[6]**

**QUESTION 8 / VRAAG 8**

8.1

(1)

8.2



8.2.1

(4)

8.2.2

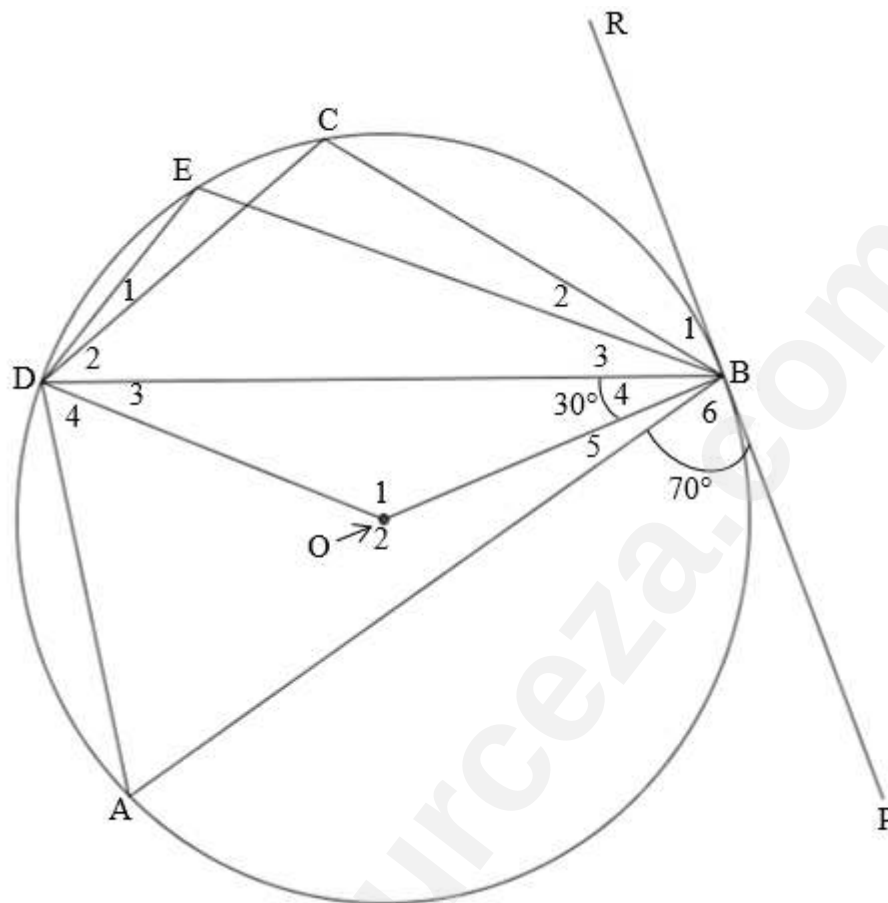
(1)

8.2.3

(3)

**[9]**

## QUESTION 9 / VRAAG 9



9.1

(3)

9.2

(2)

9.3

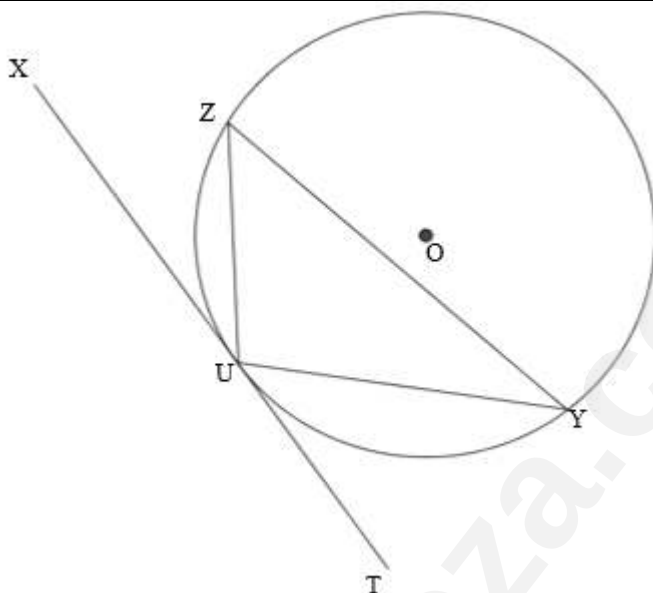
(2)

9.4

(2)

[9]

QUESTION 10 / VRAAG 10



10.1

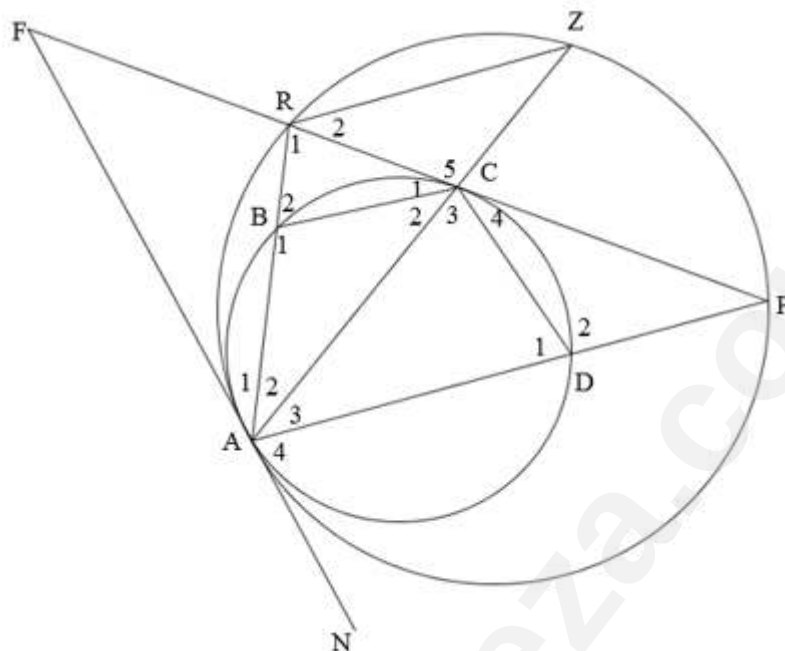
(5)

[illegible][illegible]

(5)

|        |  |             |
|--------|--|-------------|
| 10.2.2 |  | (2)         |
|        |  |             |
|        |  |             |
|        |  |             |
|        |  |             |
| 10.2.3 |  | (4)         |
|        |  |             |
|        |  |             |
|        |  |             |
|        |  |             |
|        |  |             |
|        |  |             |
|        |  | <b>[16]</b> |

## QUESTION 11 / VRAAG 11



11.1

(4)

|      |                        |            |
|------|------------------------|------------|
|      |                        |            |
| 11.2 |                        | (3)        |
|      |                        |            |
|      |                        |            |
|      |                        |            |
|      |                        |            |
|      |                        |            |
| 11.3 |                        | (5)        |
|      |                        |            |
|      |                        |            |
|      |                        |            |
|      |                        |            |
|      |                        |            |
|      |                        |            |
|      |                        |            |
|      |                        |            |
|      |                        |            |
| 11.4 |                        | (5)        |
|      |                        |            |
|      |                        |            |
|      |                        |            |
|      |                        |            |
|      |                        |            |
|      |                        | [17]       |
|      | <b>TOTAL / TOTAAL:</b> | <b>150</b> |

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### Additional Space / Bykomende Ruimte

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