



Province of the
EASTERN CAPE
EDUCATION

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| LEARNER'S NAME: <i>LEERDERNAAM:</i> | |
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| GRADE 10 <i>GRAAD 10</i> | |
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**NATIONAL/NASIONALE
SENIOR
CERTIFICATE/SERTIFIKAAT**

GRADE 10/GRAAD 10

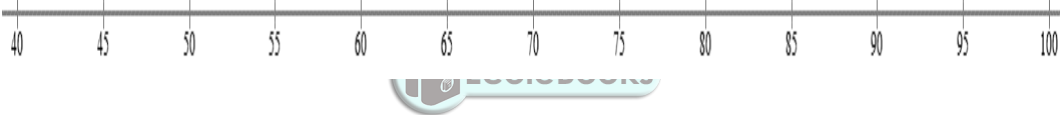
NOVEMBER 2020


**MATHEMATICS P2/WISKUNDE V2
SPECIAL ANSWER BOOK/SPEZIALE ANTWOORDEBOEK
(EXEMPLAR/EKSEMPLAAR)**

| Marker/Merker | | | Moderator's Initials / Moderator se paraaf | | | | | | | |
|--------------------------|-----------------------|---------------------|--------------------------------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|----|
| Question <i>Vraag</i> | Marks <i>Punte</i> | Initial Parafeer | Marks <i>Punte</i> | S M | Marks <i>Punte</i> | D M | Marks <i>Punte</i> | P M | Marks <i>Punte</i> | NM |
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| TOTAL TOTAAL | | | | | | | | | | |

This special answer book consists of 14 pages./
Hierdie spesiale antwoordeboek bestaan uit 14 bladsye.

| QUESTION 1/VRAAG 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Solution / Oplossing | | | | | Marks Punte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1.1 | <table border="1"> <thead> <tr> <th>Marks/ Punte</th> <th>Frequency/ Frekwensie</th> <th>Midpoints/ Middelpunt</th> <th>Midpoint \times Frequency/ Middelpt \times Frekwensie</th> </tr> </thead> <tbody> <tr> <td>$0 < x \leq 30$</td> <td>2</td> <td>15</td> <td>30</td> </tr> <tr> <td>$30 < x \leq 40$</td> <td>3</td> <td>35</td> <td>105</td> </tr> <tr> <td>$40 < x \leq 50$</td> <td>11</td> <td>45</td> <td>495</td> </tr> <tr> <td>$50 < x \leq 60$</td> <td>7</td> <td>55</td> <td></td> </tr> <tr> <td>$60 < x \leq 70$</td> <td>3</td> <td></td> <td>195</td> </tr> <tr> <td>$70 < x \leq 80$</td> <td>2</td> <td>75</td> <td>150</td> </tr> <tr> <td>$80 < x \leq 100$</td> <td>0</td> <td>90</td> <td>0</td> </tr> </tbody> </table> | | | | Marks/ Punte | Frequency/ Frekwensie | Midpoints/ Middelpunt | Midpoint \times Frequency/ Middelpt \times Frekwensie | $0 < x \leq 30$ | 2 | 15 | 30 | $30 < x \leq 40$ | 3 | 35 | 105 | $40 < x \leq 50$ | 11 | 45 | 495 | $50 < x \leq 60$ | 7 | 55 | | $60 < x \leq 70$ | 3 | | 195 | $70 < x \leq 80$ | 2 | 75 | 150 | $80 < x \leq 100$ | 0 | 90 | 0 | (2) |
| | Marks/ Punte | Frequency/ Frekwensie | Midpoints/ Middelpunt | Midpoint \times Frequency/ Middelpt \times Frekwensie | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | $0 < x \leq 30$ | 2 | 15 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | $30 < x \leq 40$ | 3 | 35 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | $40 < x \leq 50$ | 11 | 45 | 495 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | $50 < x \leq 60$ | 7 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | $60 < x \leq 70$ | 3 | | 195 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | $70 < x \leq 80$ | 2 | 75 | 150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $80 < x \leq 100$ | 0 | 90 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1.2 | | | | | (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1.1.3 | <p align="center">FREQUENCY POLYGON OF GRADE 10 MATHEMATICS CLASS FREKWENSIE-POLIGOON VAN GRAAD 10 WISKUNDEKLAS</p> <p align="center">GRADE 10 MATHEMATICS MARKS GRAAD 10 WISKUNDEPUNTE</p> | | | | (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1.4 (a) | | | | | (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1.1.4 (b) | | | | | (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1.2 | <table border="1"> <tr> <td>45</td><td>49</td><td>50</td><td>51</td><td>51</td><td>53</td><td>54</td><td>57</td><td>57</td><td>59</td><td>60</td><td>64</td> </tr> <tr> <td>65</td><td>66</td><td>70</td><td>71</td><td>73</td><td>74</td><td>75</td><td>76</td><td>83</td><td>89</td><td>89</td><td></td> </tr> </table> | 45 | 49 | 50 | 51 | 51 | 53 | 54 | 57 | 57 | 59 | 60 | 64 | 65 | 66 | 70 | 71 | 73 | 74 | 75 | 76 | 83 | 89 | 89 | | |
| 45 | 49 | 50 | 51 | 51 | 53 | 54 | 57 | 57 | 59 | 60 | 64 | | | | | | | | | | | | | | | |
| 65 | 66 | 70 | 71 | 73 | 74 | 75 | 76 | 83 | 89 | 89 | | | | | | | | | | | | | | | | |
| 1.2.1 | | | (1) | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2.2 | <table border="1"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table> | | | | | | | (3) | | | | | | | | | | | | | | | | | | |
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| 1.2.3 |  | (3) | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2.4 | <table border="1"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table> | | | | | (2) | | | | | | | | | | | | | | | | | | | | |
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| | | | [20] | | | | | | | | | | | | | | | | | | | | | | | |

| QUESTION 2/VRAAG 2 | | Marks Punte |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| | Solution / Oplossing | |
| | <p>A coordinate plane showing a triangle ABC with vertices A(-2;4), B(-6;-2), and C(8;2). Point P is on side AB and point Q is on side BC. A line segment PQ is drawn.</p> | |
| 2.1 | <div style="text-align: center;">  </div> | (4) |
| 2.2.1 | | (4) |

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| 2.2.2 | | (4) |
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| 2.3 | | (4) |
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| | | (4) |
| | | [16] |

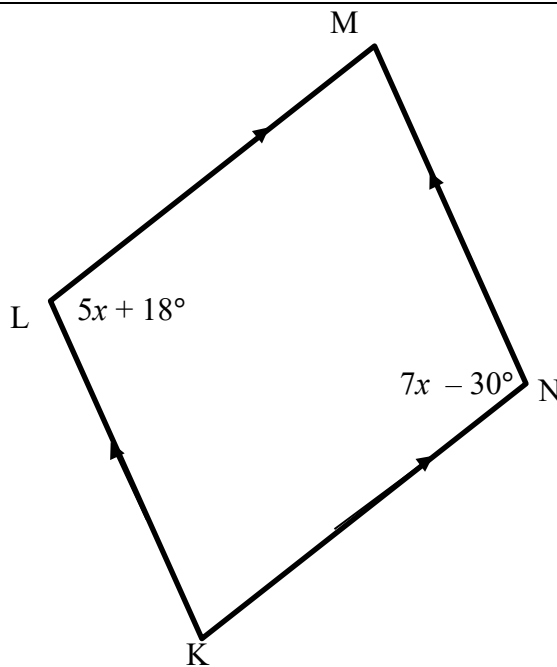

| QUESTION 3 / VRAAG 3 | | |
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| | Solution / Oplossing | Marks Punte |
| 3.1.1 | | (2) |
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| 3.1.2 | | (2) |
| | | |
| | | |
| 3.1.3 | | (2) |
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| 3.2.1 | | (2) |
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| 3.2.2 | | (3) |
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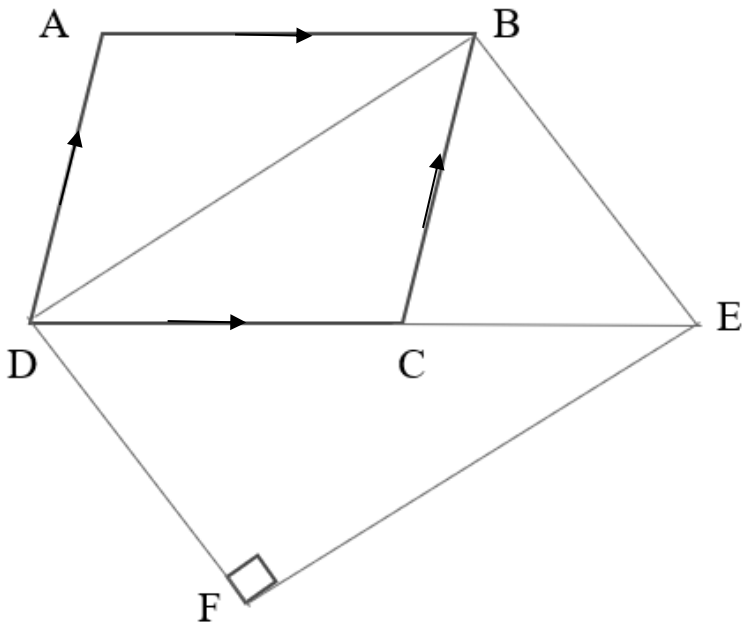



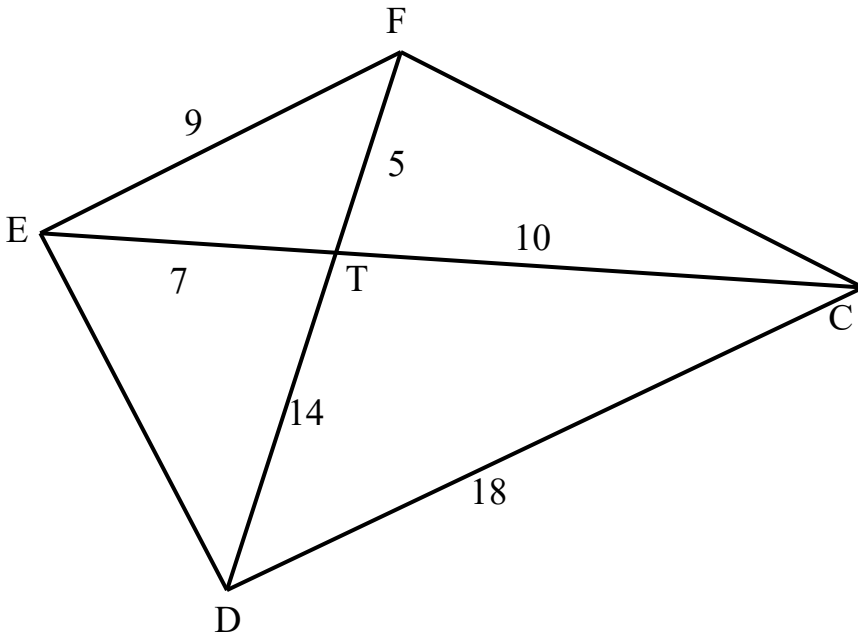

| | <i>Solution / Oplossing</i> | <i>Marks Punte</i> |
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| 3.3 | | |
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| | | (3) |
| 3.4 | | |
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| | | (5) |
| 3.5 | | |
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| | | (2) |
| | | [21] |

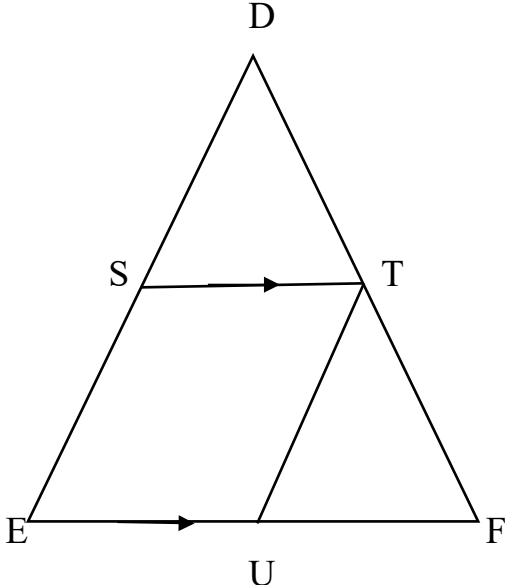



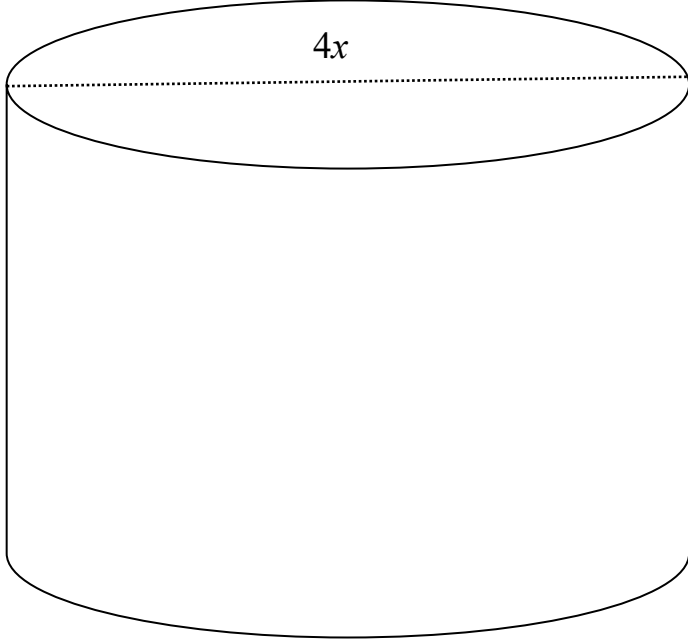

| QUESTION 4 / VRAAG 4 | | |
|----------------------|----------------------|----------------|
| | Solution / Oplossing | Marks Punte |
| 4.1. | | (4) |
| 4.2 | | |
| | | (1) |
| 4.3 | | |
| | | (1) |
| 4.4.1 | | |
| | | (2) |
| 4.4.2 | | |
| | | (2) |
| 4.5 | | |
| | | (2) |
| | | [12] |

| | Solution / Oplossing | Marks Punte |
|-------|------------------------------------------------------------------------------------------------------------------------------|----------------|
| 5.2 |  | |
| 5.2.1 | <div style="text-align: center;">  </div> | (4) |
| 5.2.2 | | (3) |

| | Solution / <i>Oplossing</i> | Marks <i>Punte</i> |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------|
| 5.3 |  | |
|  | | (6) |

| | Solution / Oplossing | Marks Punte |
|-------|------------------------------------------------------------------------------------------------------------------------------|----------------|
| 5.4 |  | |
| 5.4.1 | <div style="text-align: center;">  </div> | (3) |
| 5.4.2 | | (3) |

| | Solution / <i>Oplossing</i> | Marks <i>Punte</i> |
|-------|------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 5.5.1 | | |
| 5.5.2 |  | (1) |
| | <div style="text-align: center;">  </div> | |
| | | (4) [28] |

| QUESTION 6 / VRAAG 6 | | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| | Solution / Oplossing | Marks Punte |
| |  <p>A diagram of a cylinder. The top circular face is shown with a horizontal dashed line representing the diameter, labeled $4x$. The vertical height of the cylinder is labeled h.</p> | |
| |  | |
| | | (3) |
| | | [3] |
| | TOTAL/TOTAAL: | 100 |