



Province of the
EASTERN CAPE
EDUCATION

LEARNER'S NAME /
LEERDER SE NAAM

NATIONAL SENIOR CERTIFICATE
NASIONALE SENIOR SERTIFIKAAT

MATHEMATICS P2 / WISKUNDE V2 (EXEMPLAR)

GRADE 10 / GRAAD 10

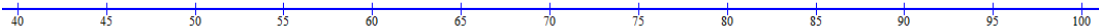
NOVEMBER 2019

SPECIAL ANSWER BOOK
SPESIALE ANTWOORDEBOEK

QUESTION VRAAG	MARKS PUNTE	MARKER'S INITIAL NASIENER SE VOORLETTERS	MOD. MARKS/ PUNTE	INITIALS MOD/ VOORLETTERS MOD
1				
2				
3				
4				
5				
6				
7				
8				
TOTAL/TOTAAL	100			

This answer book consists of 15 pages./Hierdie antwoordeboek bestaan uit 15 bladsye.

QUESTION/VRAAG 1

	Solution/ <i>Oplossing</i>										Marks <i>Punte</i>																				
	<table><tr><td>48</td><td>50</td><td>52</td><td>59</td><td>60</td><td>68</td><td>73</td><td>76</td><td>76</td><td>76</td></tr><tr><td>78</td><td>79</td><td>80</td><td>81</td><td>82</td><td>82</td><td>84</td><td>91</td><td>92</td><td>98</td></tr></table>										48	50	52	59	60	68	73	76	76	76	78	79	80	81	82	82	84	91	92	98	
48	50	52	59	60	68	73	76	76	76																						
78	79	80	81	82	82	84	91	92	98																						
1.1.1											(1)																				
1.1.2											(2)																				
1.1.3											(2)																				
1.1.4											(1)																				
	1.1.5											(3)																			
																															

1.1.6					(1)																																
1.2.1					(2)																																
	<table><tr><td>Duration/<i>Tydsduur</i></td><td>No. of calls <i>Aantal oproepe</i></td><td>Midpoint <i>Middelpunt</i></td><td>$(f_i) \times (x_i)$</td></tr><tr><td>$2 < x \leq 5$</td><td>47</td><td>3,5</td><td>164,5</td></tr><tr><td>$5 < x \leq 8$</td><td>139</td><td>6,5</td><td>903,5</td></tr><tr><td>$8 < x \leq 11$</td><td>211</td><td>9,5</td><td>2004,5</td></tr><tr><td>$11 < x \leq 14$</td><td>102</td><td>12,5</td><td>1275</td></tr><tr><td>$14 < x \leq 17$</td><td>58</td><td>15,5</td><td>899</td></tr><tr><td>$17 < x \leq 20$</td><td>19</td><td>A =</td><td>B =</td></tr><tr><td>TOTAL/<i>TOTAAL</i>:</td><td></td><td></td><td></td></tr></table>					Duration/ <i>Tydsduur</i>	No. of calls <i>Aantal oproepe</i>	Midpoint <i>Middelpunt</i>	$(f_i) \times (x_i)$	$2 < x \leq 5$	47	3,5	164,5	$5 < x \leq 8$	139	6,5	903,5	$8 < x \leq 11$	211	9,5	2004,5	$11 < x \leq 14$	102	12,5	1275	$14 < x \leq 17$	58	15,5	899	$17 < x \leq 20$	19	A =	B =	TOTAL/ <i>TOTAAL</i> :			
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1.2.2					(3)																																
1.2.3					(2)																																
					[17]																																

QUESTION/VRAAG 2

	Solution/Oplissing	Marks Punte
2.1	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	(5)
2.2	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	(2)

2.3		(5)
2.4		(4)
		[16]

QUESTION/VRAAG 3

	Solution/Oplissing	Marks Punte
3.1.1		(3)
3.1.2		(3)
3.2		(6)

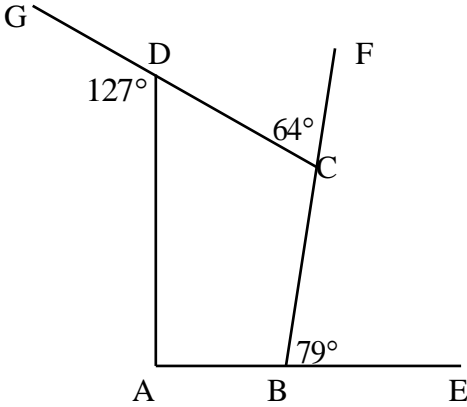
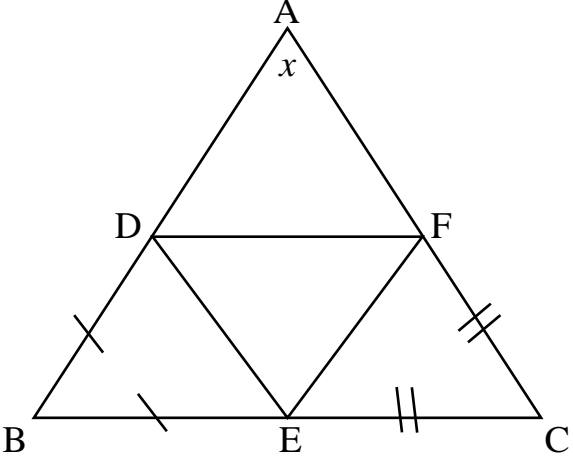
3.3.1		(3)
3.3.2		(3)
3.4		(5)

3.5.1		(2)
3.5.2		(2)
		[27]

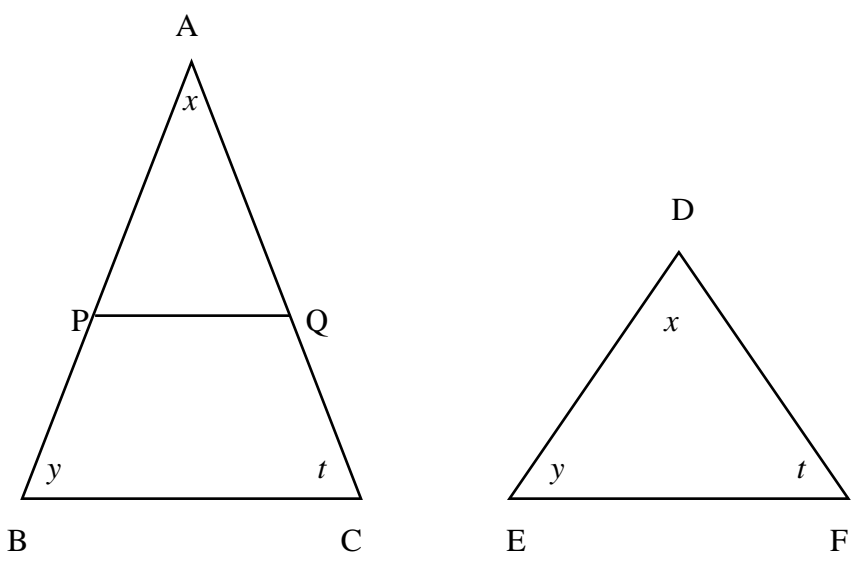
QUESTION/VRAAG 4

	Solution/Oplossing	Marks Punte
4.1		(3)
4.2		(1)
4.3		(3)
4.4		(2)
4.5		(3)
		[12]

QUESTION/VRAAG 5

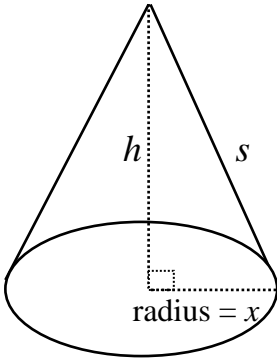
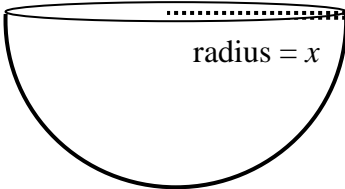
	Solution/Oplossing	Marks Punte
		
5.1	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	(4)
5.2		
	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	(4)
		[8]

QUESTION/VRAAG 6

	Solution/Oplissing	Marks Punte
		
6.1.1	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	(3)
6.1.2	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	(3)
6.1.3	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	(4)

6.2		
6.2.1		
		(1)
6.2.2		
		(5)
		[16]

QUESTION/VRAAG 7

	Solution/Oplissing	Marks Punte
	<div style="text-align: center;">   </div> <p>Total surface area of a cone = $\pi r^2 + \pi rs$, where s is the slant height of the cone. <i>Totale buite-oppervlakte van 'n keël = $\pi r^2 + \pi rs$, waar s die skuinshoogte van die keël is.</i></p> <p>Total surface area of a hemisphere = $3\pi r^2$. <i>Totale buite-oppervlakte van 'n hemisfeer = $3\pi r^2$.</i></p>	
		(4)
		[4]

[illegible]

[illegible]

TOTAL/TOTAAL: 100