



LEARNER'S NAME/  
*LEERDER SE NAAM:*

GRADE/*GRAAD* 12

**NATIONAL SENIOR CERTIFICATE/  
*NASIONALE SENIOR SERTIFIKAAT***

**GRADE 12/*GRAAD 12***

**JUNE/*JUNIE* 2018**

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

QUESTION/ <i>VRAAG</i>	Marker/ <i>Merker</i>			Moderator's Initials/ <i>Voorletters</i>															
	Marks/ <i>Punte</i>		Marker's initials	Marks/ <i>Punte</i>			S M	Marks/ <i>Punte</i>			D M	Marks/ <i>Punte</i>			P M	Marks/ <i>Punte</i>			N M
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
<b>TOTAL/ <i>TOTAAL</i></b>																			



This special answer book consists of 23 pages. / *Hierdie spesiale antwoordeboek bestaan uit 23 bladsye.*

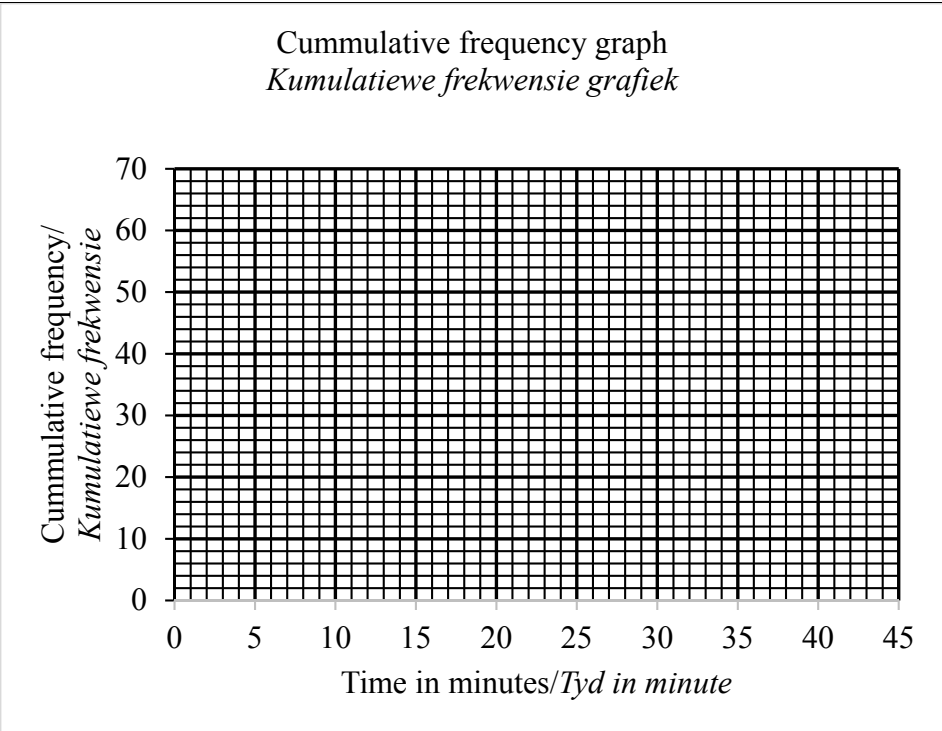
## QUESTION/VRAAG 1

34 58 26 44 28 29 36 49 54 43 45 59 37 29 48

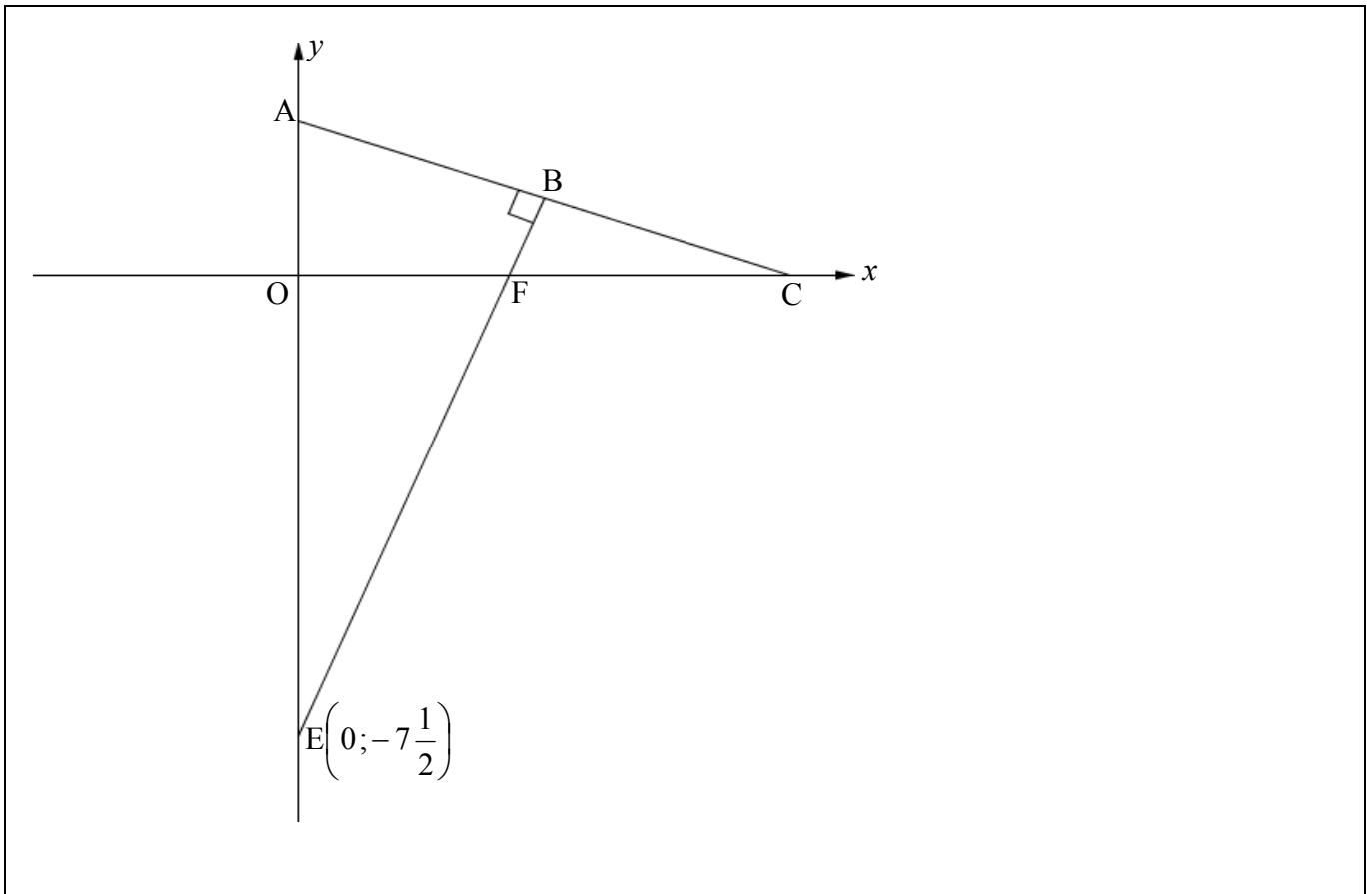
	<b>Solutions/Oplossings</b>	<b>Marks Punte</b>
1.1		(2)
1.2		(2)
1.3		(3)



## QUESTION/VRAAG 2

Solutions/Oplissing			Marks Punte
2.1			(2)
2.2	Time (in minutes) <i>Tyd in minute</i>	Frequency <i>Frekwensie</i>	Cumulative frequency <i>Kumulatiewe frekwensie</i>
	$5 \leq t < 10$	3	
	$10 \leq t < 15$	5	
	$15 \leq t < 20$	$y$	
	$20 \leq t < 25$	16	
	$25 \leq t < 30$	15	
	$30 \leq t < 35$	17	
	$35 \leq t < 40$	$y$	(2)
2.3	<p style="text-align: center;">Cummulative frequency graph <i>Kumulatiewe frekwensie grafiek</i></p> 		(3)
2.4			(3)
			[10]

**QUESTION/VRAAG 3**

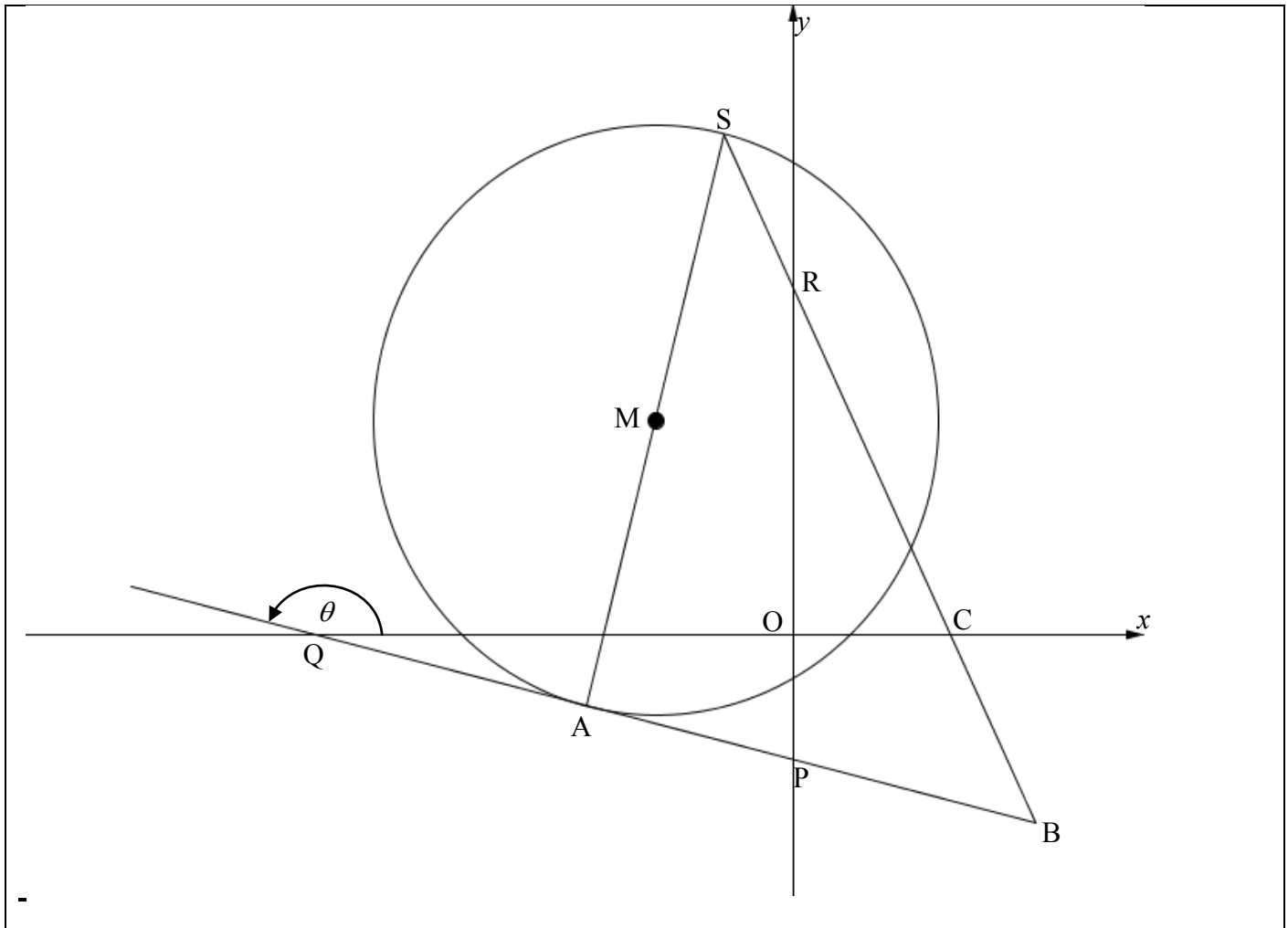


	<b>Solutions/Oplissing</b>	<b>Marks Punte</b>
3.1	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	(2)
3.2	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	(4)

3.3		(2)
3.4		(4)
3.5		(2)
3.6		(5)

3.7		(1)
3.8		(2)
		[22]

QUESTION/VRAAG 4



	Solutions/Oplissing	Marks Punte
4.1		(3)
4.2		(1)



4.3		(3)
4.4		(6)
4.5		(2)
4.6		(4)
	<b>[19]</b>	

	<b>Additional space/<i>Addisionele Ruimte</i></b>	

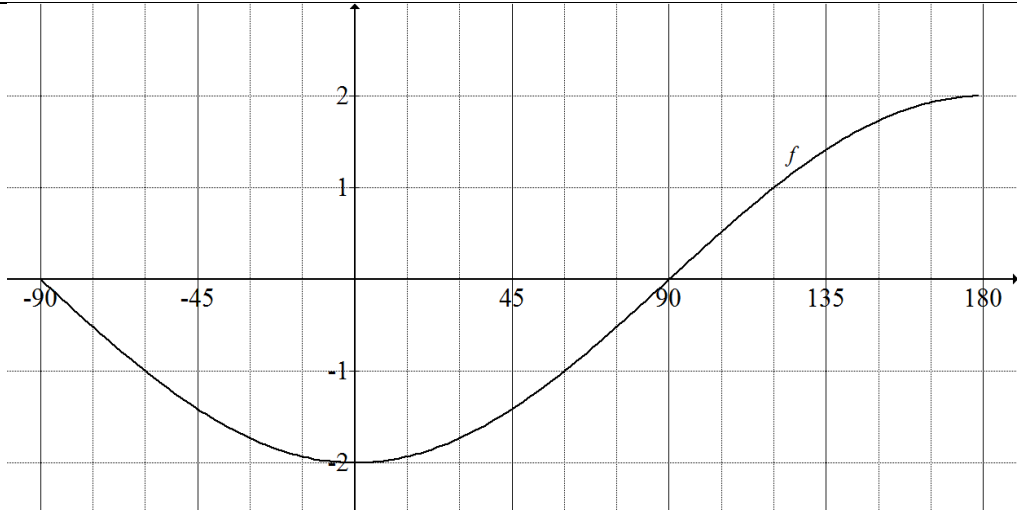
**QUESTION/VRAAG 5**

	<b>Solutions/Oplissing</b>	<b>Marks Punte</b>
5.1.1		(4)
5.1.2		(3)
5.1.3		(4)

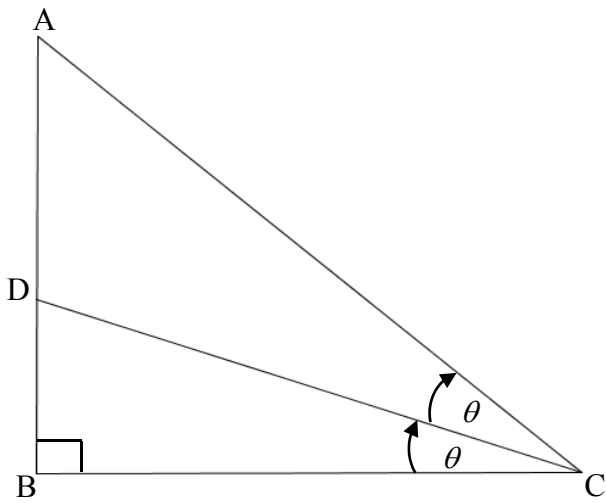
5.2		(6)
5.3		(5)
	[22]	

**Additional Space/Addisionele Ruimte**


QUESTION/VRAAG 6

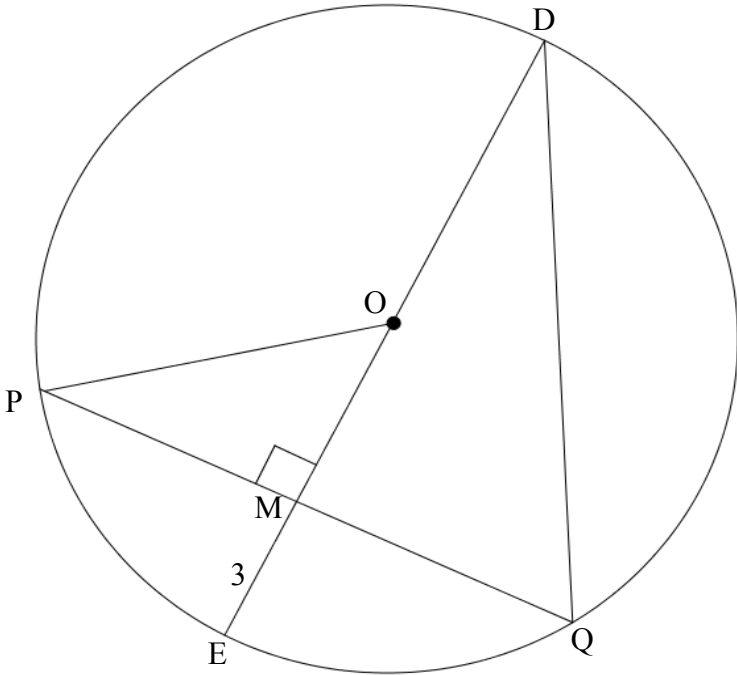
	Solutions/Oplissing	Marks Punte
6.1		(1)
6.2		(2)
6.3		(3)
6.4		(2)
6.5		(3)
		[11]

QUESTION/VRAAG 7



	<b>Solutions/Oplissing</b>	<b>Marks Punte</b>
7.1		(1)
7.2		(1)
7.3		(5) [7]

QUESTION/VRAAG 8

	Solutions/Oplissing	Marks Punte
8.1		(1)
8.2		
	Solutions/Oplissing	Marks Punte
8.2.1		(1)
8.2.2		(4)

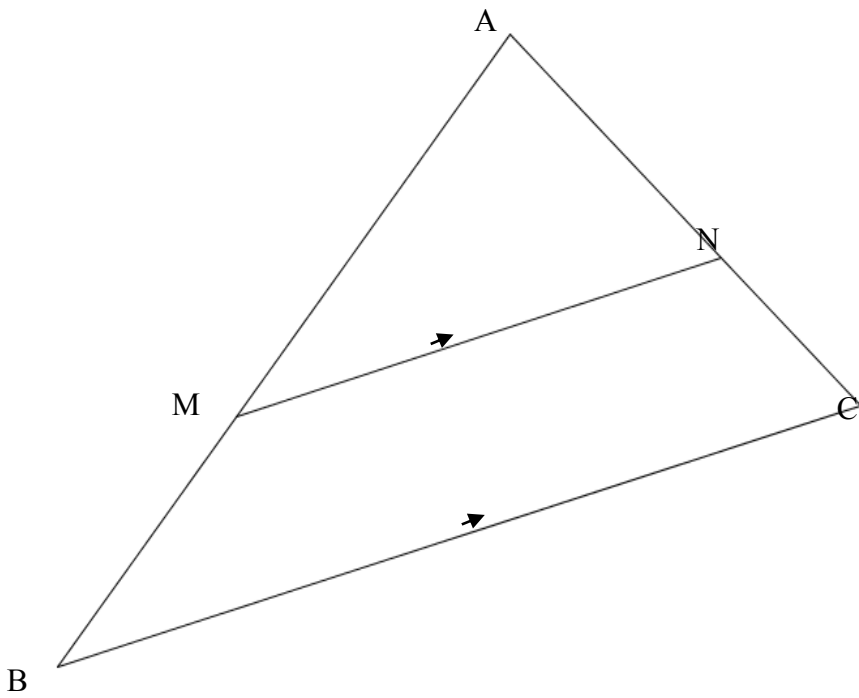
8.2.3		
		[9]
<b>Additional space/</b> <i>Addisionele Ruimte</i>		

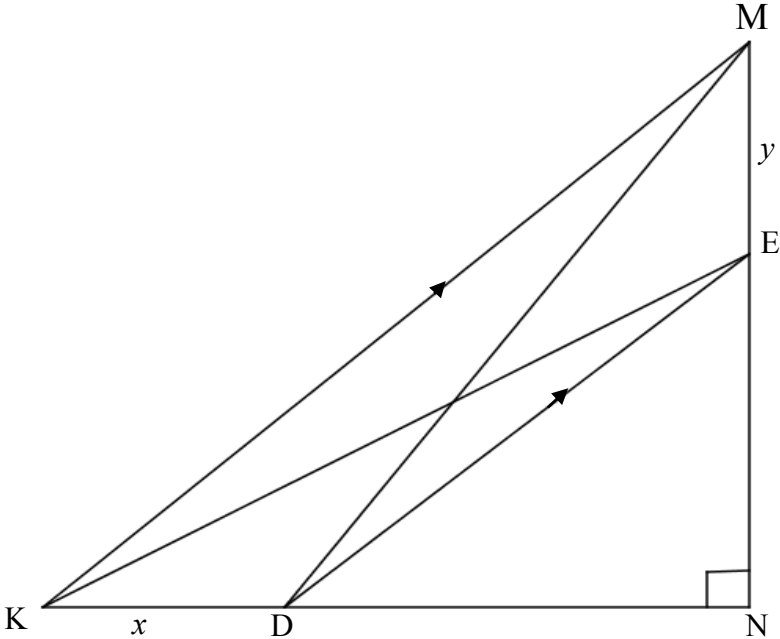


QUESTION/VRAAG 9

<p>9.1</p>		
	<p><b>Solutions/Oplissing</b></p>	<p><b>Marks Punte</b></p>
<p>9.1</p>	Empty space for student solution	<p>(8)</p>
<p>9.2</p>	Empty space for student solution	<p>(2) <b>[10]</b></p>

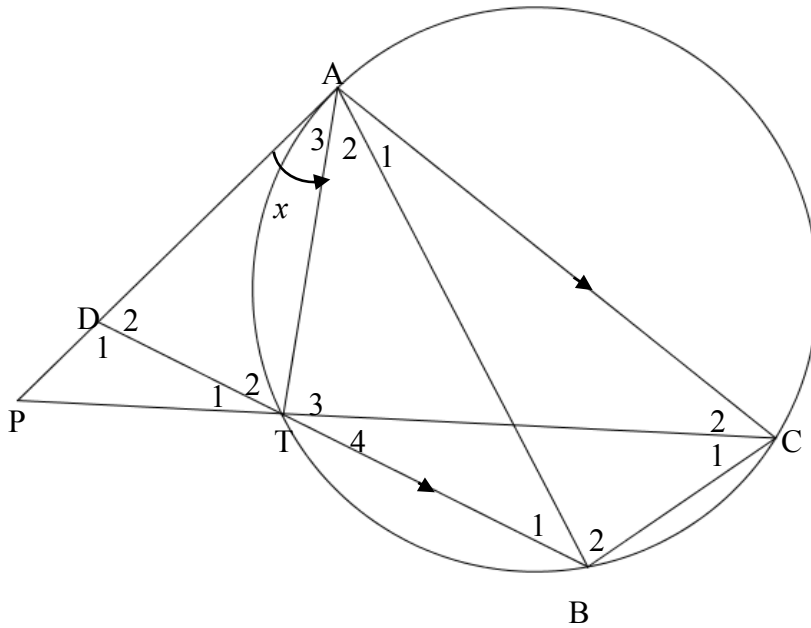
QUESTION/VRAAG 10

		
	<p><b>Solutions/Oplossing</b></p>	<p><b>Marks Punte</b></p>
<p>10.1</p>	<p> </p> <p> </p> <p> </p> <p> </p> <p> </p>	<p>(5)</p>

10.2		
<b>Solutions/Oplissing</b>		<b>Marks Punte</b>
10.2.1	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	(4)
10.2.2	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	(4) <b>[13]</b>

**Additional Space/*Addisionele Ruimte***


QUESTION/VRAAG 11



	Solutions/Oplissing	Marks Punte
11.1		
11.2		

11.3		(3)
11.4		(4)
<b>Additional Space/Addisionele Ruimte</b>		



