



LEARNER NAME / LEERDER NAAM	
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GRADE/GRAAD	
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NATIONAL SENIOR CERTIFICATE
NASIONALE SENIOR SERTIFIKAAT

MATHEMATICS P2/WISKUNDE V2

GRADE/GRAAD 12

JUNE EXAMINATION/JUNIE EKSAMEN 2016

SPECIAL ANSWER BOOK <i>SPESIALE ANTWOORDEBOEK</i>

QUESTION/VRAAG	MARK/PUNT	INITIAL/PARAAF	MOD.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
TOTAL/TOTAAL			



This answer book consists of 22 pages./
Hierdie antwoordeboek bestaan uit 22 bladsye.

QUESTION/VRAAG 1

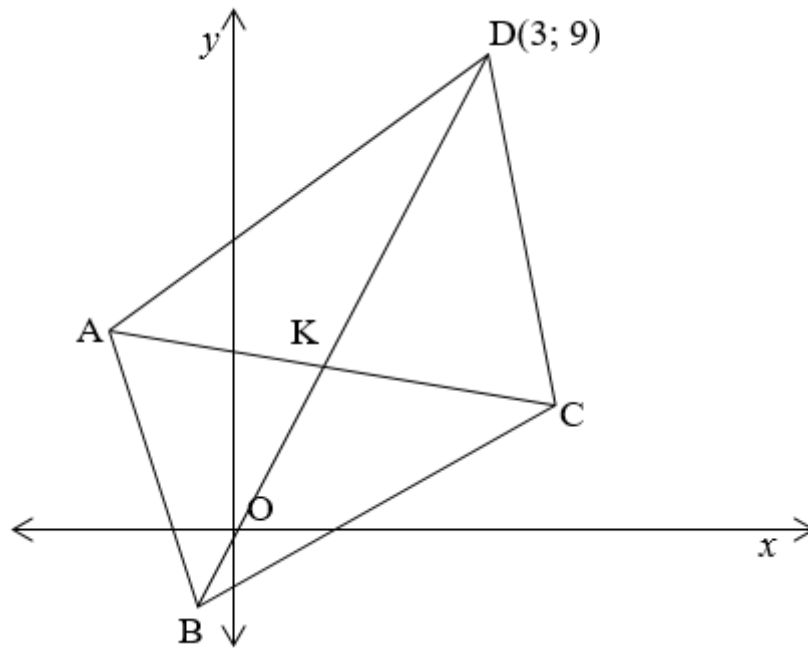
	Solution/Oplissing	Marks/ Punte														
1.1	<table border="1"> <thead> <tr> <th>Time (hours) / Tyd (ure)</th> <th>Cumulative Frequency / Kumulatiewe Frekwensie</th> </tr> </thead> <tbody> <tr> <td>$0 \leq t < 20$</td> <td>30</td> </tr> <tr> <td>$20 \leq t < 40$</td> <td>69</td> </tr> <tr> <td>$40 \leq t < 60$</td> <td>129</td> </tr> <tr> <td>$60 \leq t < 80$</td> <td>157</td> </tr> <tr> <td>$80 \leq t < 100$</td> <td>167</td> </tr> <tr> <td>$100 \leq t < 120$</td> <td>172</td> </tr> </tbody> </table> <div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">Time spent playing sport / Tyd spandeer aan sport speel</p> </div>	Time (hours) / Tyd (ure)	Cumulative Frequency / Kumulatiewe Frekwensie	$0 \leq t < 20$	30	$20 \leq t < 40$	69	$40 \leq t < 60$	129	$60 \leq t < 80$	157	$80 \leq t < 100$	167	$100 \leq t < 120$	172	(4)
Time (hours) / Tyd (ure)	Cumulative Frequency / Kumulatiewe Frekwensie															
$0 \leq t < 20$	30															
$20 \leq t < 40$	69															
$40 \leq t < 60$	129															
$60 \leq t < 80$	157															
$80 \leq t < 100$	167															
$100 \leq t < 120$	172															

1.2		(1)
1.3		(1)
1.4		(2)
1.5		(4)
		[12]

QUESTION/VRAAG 2

	Solution/Oplissing	Marks /Punte
2.1		(2)
2.2		(2)
2.3		(2)
		[6]

QUESTION/VRAAG 3



Solution/Oplossing		Marks/Punte
3.1	3.1.1	(3)
	3.1.2	(4)

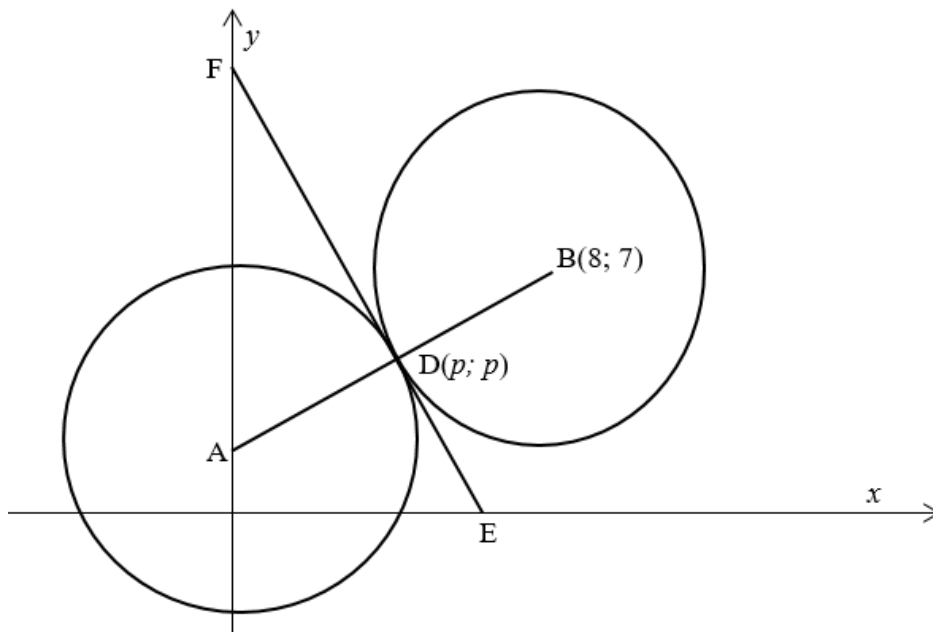
3.1.3			(3)
3.1.4			(8)

	3.2.1		(2)
	3.2.2		(2)
	3.2.3		(3)

[25]

	Additional Space / Bykomende Ruimte	

QUESTION/VRAAG 4



	Solution/Oplossing	Marks /Punte
4.1		(2)
4.2		(5)

4.3		(5)
4.4		(2)
[14]		

	Additional Space / Bykomende Ruimte	

QUESTION/VRAAG 5

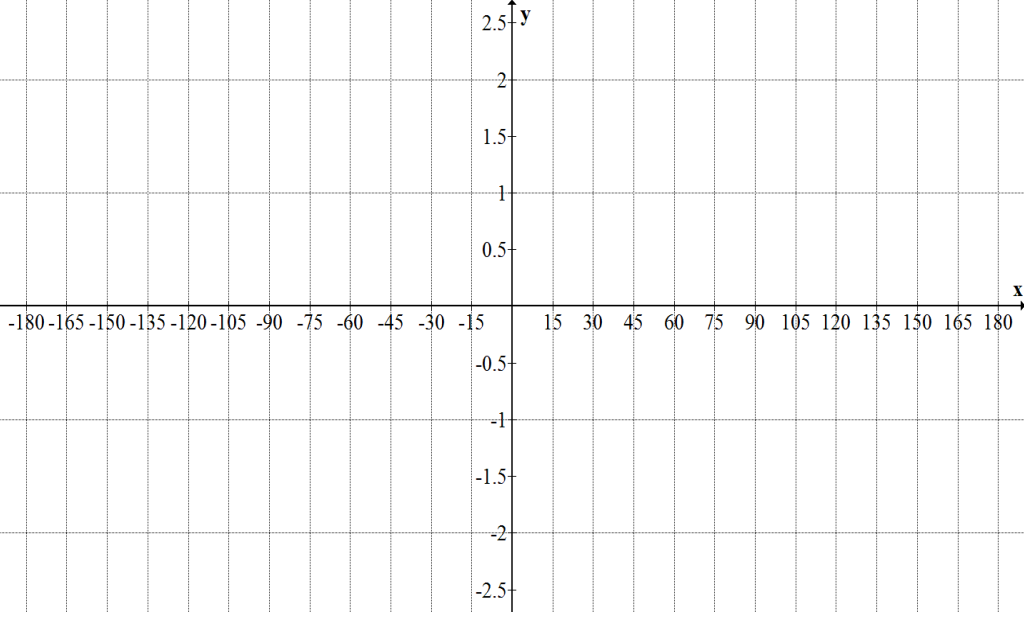
	Solution/Oplissing	Marks /Punte
5.1		(8)
5.2		(5)
5.3		(2)

5.4		(7)
5.5		(3)

[25]

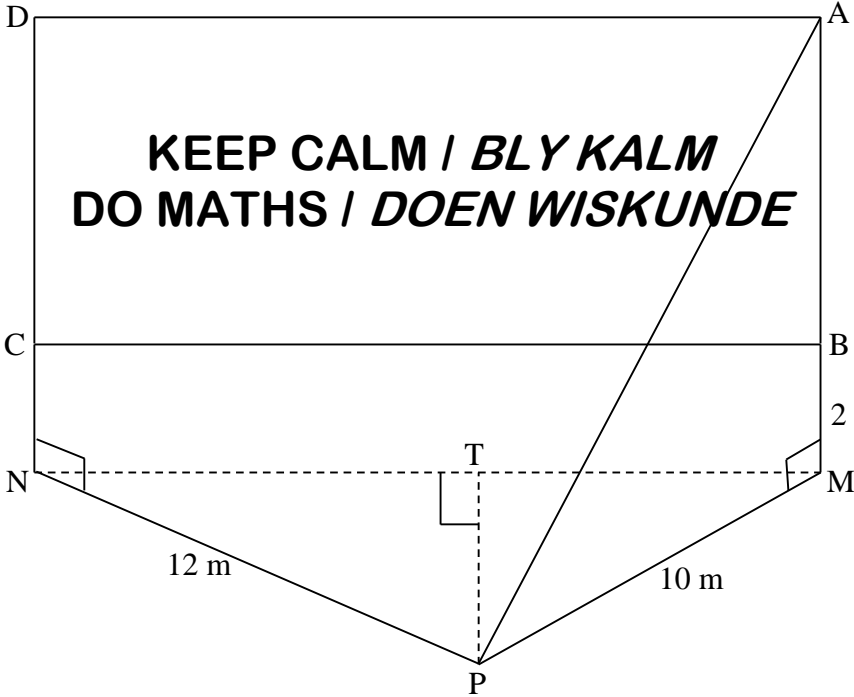
Additional Space / Bykomende Ruimte	

QUESTION/VRAAG 6

	Solution/Oplissing	Marks /Punte
6.1		(6)
6.2		
		(2)

[8]

QUESTION/VRAAG 7

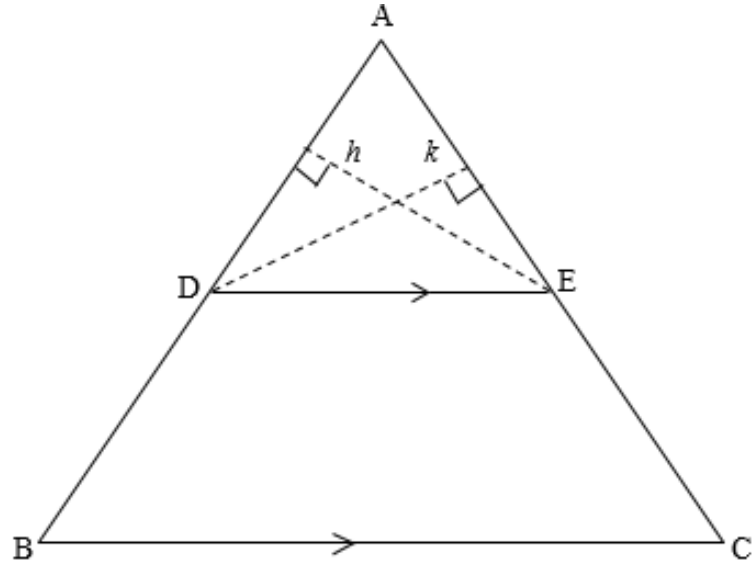
	Solution/Oplissing	Marks /Punte
	 <p style="text-align: center;">KEEP CALM / BLY KALM DO MATHS / DOEN WISKUNDE</p>	
7.1	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	(3)
7.2	<hr/> <hr/> <hr/> <hr/> <hr/>	(4)

[7]

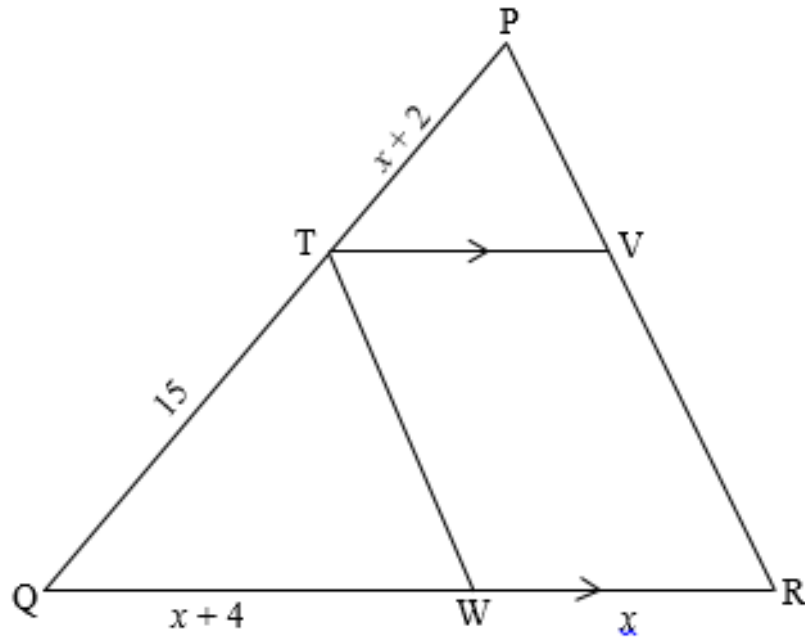
QUESTION/VRAAG 8

	Solution/Oplissing	Marks /Punte
8.1		(1)
8.2.1		(5)

QUESTION/VRAAG 10

	Solution/Oplissing	Marks/Punte
10.1		
10.1.1	<div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div>	(1)
10.1.2	<div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div>	(5)

10.2



10.2.1

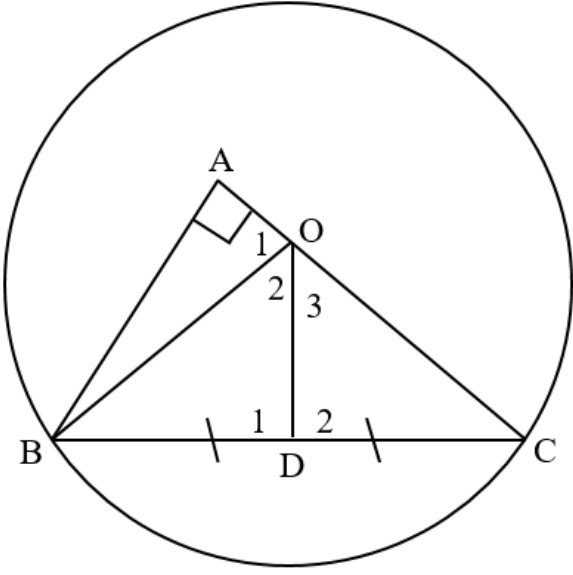
(6)

10.2.2

(3)

[15]

QUESTION/VRAAG 11

	Solution/Oplissing	Marks /Punte
11.1		(3)
11.2		(1)

