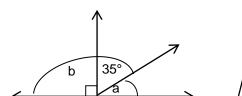
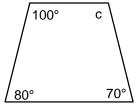
	WCED EXTERNAL EXAMINATION	
Ма 20	Time: November 2019 Total:	: 7 2 hours /80 rator: R. Alves
1. St 2. Re 3. W 4. Or	crictly NO calculators may be used. ead through your questions carefully. Trite clearly and neatly with a sharp pencil. nce done, go through your paper to check all your answers again.	
Sect	ion A: 2D shapes, Triangles and Angles	[39]
1) Stu	i) ii)	
1.1)	Identify the two quadrilaterals.	
	i) ii)	(1)
1.2)	Give one similarity between the two quadrilaterals.	_ (1)
1.3)	Give one <u>difference</u> between the two quadrilaterals.	_ (')
		_ (1)
2)	Study the triangles and answer the questions that follow: i ii d d d d d d d d d d d	
2.1)	Identify the following triangles and give a reason for your answer:	
	i: Reason:	
	ii: Reason:	
	iii: Reason:	$(3 \times 2 = 6)$
2.2)	Calculate the size of angle a-d:	(3 x Z = 6)
	A=	
	B= D=	
	Page 1 of 8	

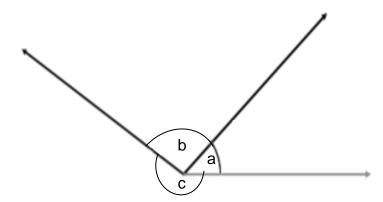
2.3) Calculate the missing angles in the following diagrams:





a)	
b) _	
,	,,

2.4) Measure the following angles using a protractor and identify what KIND of angle each are:



a) Size: _____

Kind of angle:

b) Size: _____

Kind of angle:

c) Size: _____

Kind of angle:

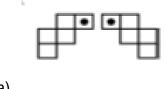
 $(3 \times 2 = 6)$

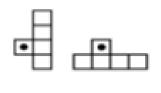
3.1) Complete the table below:

 $(8 \times 1 = 8)$

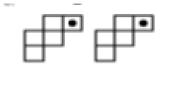
3-D Object	Name	Number of edges	Number of faces	Number of vertices

3.2) Which transformation took place in each of the following diagrams?





c)

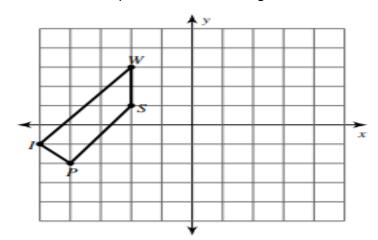


(3)

a)

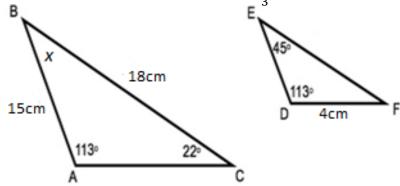
b)

3.3) Draw the reflection of shape WSPI on the diagram below.



(1)

4) These triangles are similar. Triangle DEF is a $\frac{1}{3}$ of triangle ABC.



4.1) Give the length of EF: _____ (1)

4.2) Give the length of side AC: _____ (1)

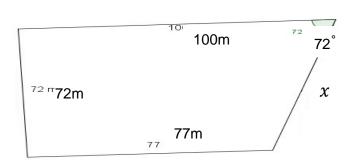
4.3) Give the size of angle B: _____ (1)

4.4) Name the triangle according to the lengths of its sides: _____ (1)

4.5) Name the triangle according to the size of its angles. _____ (1)

Section B : Perimeter, Area, Surface Area and Volume/capacity [25]

1) The shape below shows the border of a farmer's property. Answer the questions that follow: (Show all calculations.)



		ig is R345/m?	n a rence arou	und it. What would	ine owner pay
Calculate calculation				ow the formula fo	
	6cm				
				8cm	
			16cm	8cm	

	total surface area of the following object: (Show all calculations.)
	16 cm 20 cm
Study the cub	e given below and answer the questions that follow:
	Side measurements = 40mm volume of this cube :
	volume of this cube :
How many litr	volume of this cube :

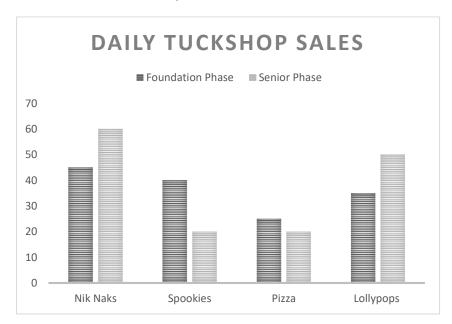
	Capacity is	
5)	Below is a diagram of Peter's garden with a swimming pool in the middle that measures 8m × 5m. The shaded part is where he wants to plant grass around the pool.	(2)
	18m	
		10m
5.1)	Calculate the area of the shaded part.	
		(3)
5.2)	If grass costs R30/m², how much will Peter have to pay for it?	(-)
		(2)
<u>Sect</u>	ion C - Data Handling	[16]
1.1)	Underline the correct terms to describe the graph below.	(2 × 1 = 2)
	A) Linear / non-linear	
	B) Increasing / decreasing / constant	

1.2) Draw a **line** graph of the rainfall in Cape Town over a certain year. Use the rubric to assist you.

Month	J	F	М	Α	М	J	J	Α	S	0	N	D
Rainfall (mm)	10	5	3	12	30	76	90	70	50	35	20	12

Element	Marks available	Marks awarded
Graph title	(1)	_
Correct independent variable and units	(1)	
Correct dependent variable and units	(1)	
Correct use of line graph style	(1)	
Correct data points plotted	(1)	
Total:	5	

2) Study the graph below and answer the questions that follow:



2.1)	Which item is more popular with the Foundation Phase than with the Senior Phase?	

_ (1)

2.3) How many items did the Foundation Phase buy altogether?

______(1)

3.1) Arrange the following marks in ascending order: 7;15;16;6;12;19;11;3;19

3.2) What is the median mark? ______ (1)

3.3) What is the range of these marks?

(1)

______(1)

3.4) Calculate the mean mark._______(2)

4) A coin is tossed ten times. It landed on heads four times. Calculate the relative frequency of it landing on heads. ______ (1)

TOTAL: 80 Marks