PAPER 1 (Core)

Marks 60

Additional Materials: Geometrical instruments Non-programmable calculator Tracing paper (optional)

## INSTRUCTIONS AND INFORMATION TO CANDIDATES

- Candidates answer on the Question Paper in the spaces provided.
- Write your Centre Number, Candidate Number and Name in the spaces at the top of this page.
- Write in dark blue or black pen.
- You may use a soft pencil for any diagrams or graphs.
- Do not use correction fluid.
- Do not write in the margin For Examiner's Use.
- Answer **all** questions.
- If working is needed for any question it must be shown below, or where working is indicated.
- The number of marks is given in brackets [ ] at the end of each question or part question.
- Non-programmable calculators may be used.
- If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to **three** significant figures. Give answers for angle sizes to **one** decimal place.
- For  $\pi$ , either use your calculator value, or use 3.142.

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Marker
Checker

1 hour 15 minutes

2017

This document consists of **12** printed pages.



Republic of Namibia

MINISTRY OF EDUCATION, ARTS AND CULTURE

	2		<b>5</b> 0%
Insert brackets to make the following statement true.			Examiner's
- 4 + 3	× – 3 = 3	[1]	
 Work out 8 ÷ 200. Giv	e your answer in standard form.		
	Answer	[2]	
 Write 0.004572 correct	to two significant figures.		
	Answer	[1]	
 Place <, > or = betwee	n the following statements to make them true.		
(a) $\frac{1}{3}$	33.3%	[1]	
(b) 0.75 $\frac{3}{4}$		[1]	
(c) 9.9 9	9%	[1]	
Fill in the missing numb	er to make the following fractions equivalent.		
$\frac{54}{13} = \frac{54}{78}$		[1]	
The table below show particular winter day, at	s temperatures recorded at different towns during a the same time.		
A	-10		
В	-3		
С	-1		
D	-5		
(a) Which town recorded the highest temperature?			
	Answer <b>(a)</b>	[1]	
(b) Find the difference b	between the highest and the lowest temperatures.		

	3			<b>F</b> an	
7	2, 121, $\sqrt{5}$ .			For Examiner's	
	From the list of numbers above, write down				
	(a) an irrational number,				
	Answ	er (a)	[1]		
	(b) a prime number				
			[4]		
	AllSwo	er (D)	נין		
8	Michaela changes N\$13 750 into US\$ when the	exchange rate is			
	0.0001 - 10012.0044.				
	Calculate the amount she received. Give your an	swer correct to 2 decimal places.			
	A		101		
	Answe	er US\$	[2]		
9	(a) Write 40 minutes as a fraction of one hour in	its simplest form			
•					
	Answ	er (a)	[1]		
	( <b>b</b> ) Increase 27 in the ratio 3 : 5	× (•)	[.]		
	Δροιι	or ( <b>b</b> )	[4]		
	AllSwo	91 (D)	נין		
10	Charmaine invests N\$750 at a rate of 5% per year	ar simple interest.			
	Calculate the interest she earns after 3 years.				
	Answe	er N\$	[2]		
11	The distance, $d$ kilometres, between Okahandja nearest 10 km.	and Windhoek is 70 km to the			
	Complete the statement about <i>d</i> .				
	Answer	≤ <i>d</i> <	[2]		

12	<ul> <li>4</li> <li>Andreas scored 25 marks out of 40 in a Mathematics test.</li> <li>(a) Calculate the percentage Andreas obtained in the test.</li> </ul>			
	Answer (a) % [2] (b) In the next test, which was also marked out of 40, he scored 80%. How many more marks did he score?			
	Answer (b) marks [2]			
13	1, 12, 23, In the sequence above, write down the 6 <sup>th</sup> term.			
	Answer [1]			
14	Simplify (a) $6a \times 2a$ ,	-		
	Answer (a)[1] (b) $18b^9 \div 3b^4$ .			
	Answer <b>(b)</b> [2]			

15	Monde thinks of a number. When she doubles the number and subtracts 3, the answer is 7.		For Examiner's Use
	(a) If the number she thinks of is x, write down an equation in terms of x for the result.		
	(b) Solve the equation in part (a) to find the number	[1]	
	Answer <b>(b)</b> <i>x</i> =	[2]	
16	Solve the following simultaneous equations.		
	3m-4n=7,		
	5m + 2n = 16.		
	Answer $m = \dots$		
	<i>n</i> =	[3]	

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For Examiner's **20** (a) The diagram shows a regular hexagon, centre *O*. Use NOT TO SCALE Find the value of *x*. Answer (a) *x* = .....° [2] (b) The exterior angle of **another** polygon is 30°. Calculate the number of sides of this polygon. Answer (b).....sides [2] **21** The diagram shows a circle, centre *O* and triangle *OAB*. The line *AB* is a tangent to the circle at the point *B*. NOT TO SCALE 0 <u>35</u>°  $\overline{B}$ (a) Obtuse, Acute, Reflex are words used to describe angles. Choose **one** word from above to describe angle *OAB*. Answer (a)..... [1] (b) State a reason why angle ABO is 90°. Answer (b) ..... [1] (c) Calculate the size of angle *AOB*. Answer(c) .....° [1]

[2]

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4324/1/17

Answer (b) ..... cm<sup>2</sup>

**22** The diagram shows the net of a solid with the dimensions of length = 7 cm, width = 3.5 cm and height = 5 cm.

**23** In a survey, a number of people chose their favourite sport. The results are shown in the pie chart below.



**25** The bar chart below shows the different types of transport used by 25 learners coming to school.



(a) Name the type of transport which represents the mode.

Answer (a) .....[1]

(b) Use the bar chart to complete the frequency table.

Transport mode	Bicycle	Walking	Car	Bus
Frequency				3

[2]

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