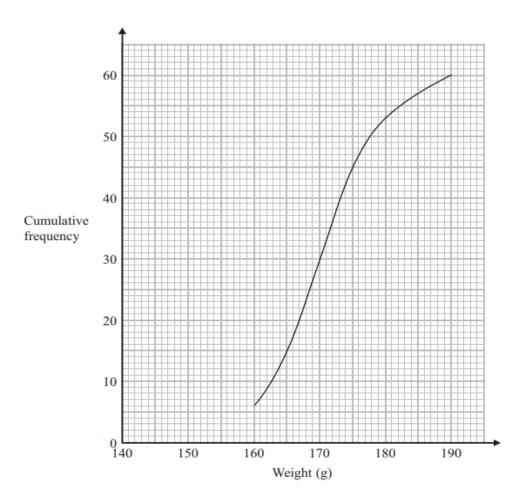
Mock Grade 5

Maths Booklet 3

Paper 1H Non-Calculator

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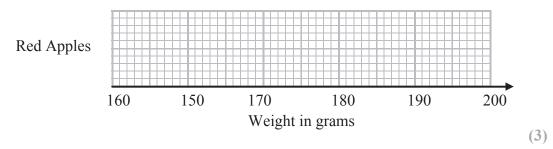
1 The cumulative frequency graph shows the weight, in grams, of 60 red apples.



The minimum weight was 163 g.

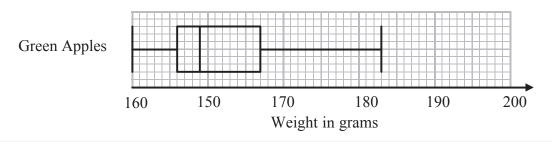
The maximum weight was 188 g.

(a) On the grid below, draw a box plot to show the distribution of the weights of the red apples.



60 green apples were picked.

The box plot below gives information about the weight of the cherries.



		(2)
Mary says,		
"The maximum weight of the green apples was 183 This means that there must be some cherries that w		3 grams.''
(c) Is Mary right?	organ convent 170 grams and 10.	5 grams.
You must give a reason for your answer.		
		(1)
	(Total for Question 1 is 6 mar	rks)
Simplify $\frac{x+4}{x^2-16}$		
$x^2 - 16$		
		(1)
b) Factorise fully $2b^2 - 162$		
		(2)
		· /
	(Total for Question 2 is 3 mar	rks)

3 The table shows information about the maximum temperature every day in September.

Temperature (°C)	Frequency
14 < t ≤ 18	7
18 < t ≤ 20	10
20 < t ≤ 22	8
22 < t ≤ 24	4
24 < t ≤ 28	1

	(a)	Work out	t an i	estimate	for	the	mean	maximum	temperature
ı	a	WOIK OU	ı anı	CSIIIIIaic	101	uic	mean	IIIaxIIIIuIII	temperature

																					C)	(
							((3	}	,)												

Nadiya says,

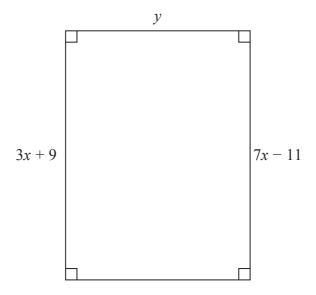
"The mean may **not** be the best average to use to represent this information."

(b) Do you agree with Nadiya? You must justify your answer.

.....

(Total for Question 3 is 4 marks)

4 Here is a rectangle.



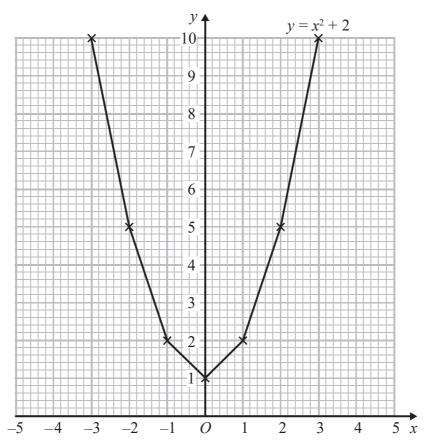
All measurements are in centimetres.

The area of the rectangle is 72 cm².

Show that y = 3

5 Brogan needs to draw the graph of $y = x^2 + 2$

Here is her graph.



Write down two things wrong with Brogan's graph.

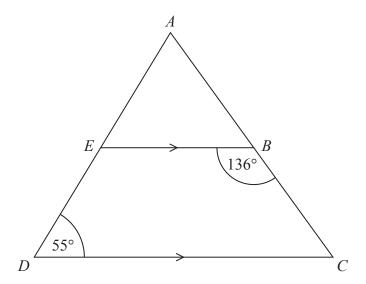
-	

2

(Total for Question 5 is 1 mark)

6	Write these numbers in ord Start with the smallest num				
	1.11×10^{6}	1.01×10^{5}	1.001×10^{6}	1.1×10^{4}	
_			(Total for Que	estion 6 is 2 marks)	
7	James and Peter walked al-	ong the same 80 km ro	ute.		
	James took 75 minutes to				
	Peter started to walk 5 mir Peter caught up with Jame				
	James and Peter both walk	ed at constant speeds.			
	Work out Peter's speed.				
					km/h
			(Total for Que	estion 7 is 5 marks)	

8 *ADC* is a triangle.



AED and ABC are straight lines. EB is parallel to DC.

Angle $EBC = 136^{\circ}$ Angle $ADC = 55^{\circ}$

Work out the size of angle *EAB*.

You must give a reason for each stage of your working.