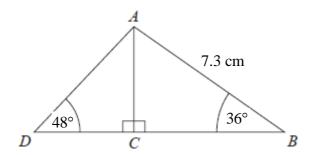




Name: ˌ	

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10 ABD is a triangle. C is a point on BD.



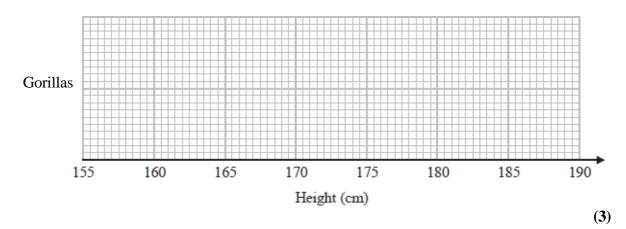
Work out the length of *DC*. Give your answer correct to 1 decimal place.

					•••••	cm
(To	otal fo	or Que	estion	10 is	3 mai	ks)

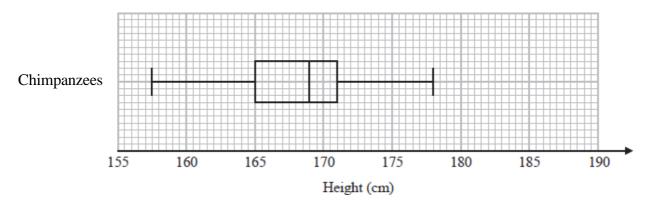
11 The table shows some information about the heights of a group of gorillas.

least height	159 cm
greatest height	188 cm
median	179 cm
lower quartile	172 cm
upper quartile	182 cm

(a) On the grid, draw a box plot for the information in the table.



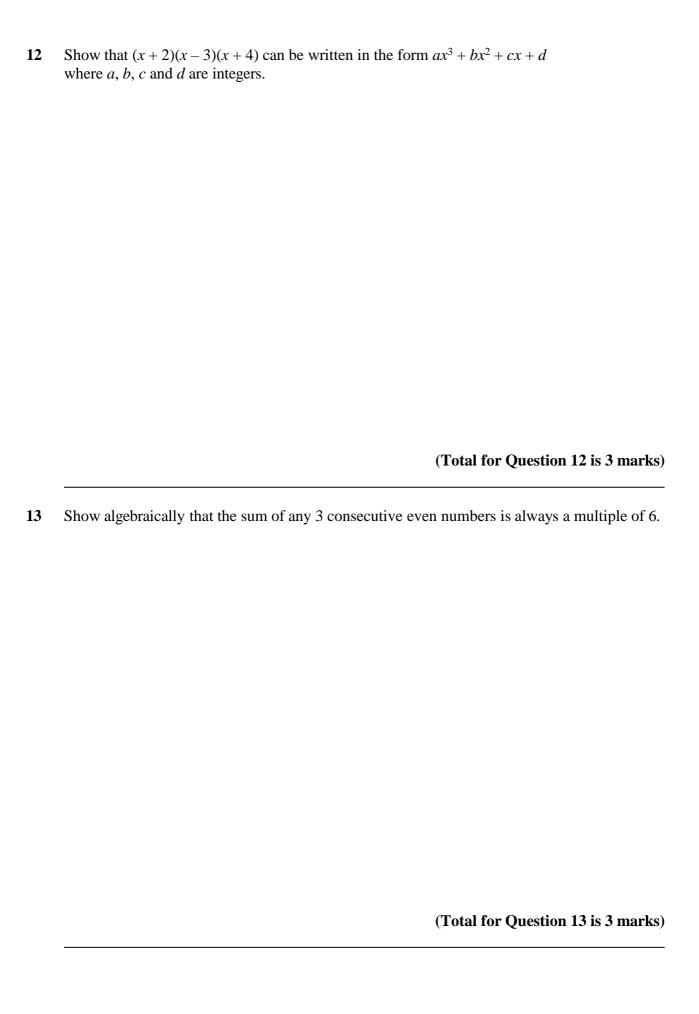
The box plot below shows the distribution of the heights of a group of chimpanzees.



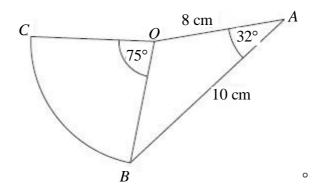
(b)	Compare the distribution of the heights of the gorillas with the distribution of the
	heights of the chimpanzees.

 (2)

(Total for Question 11 is 5 marks)



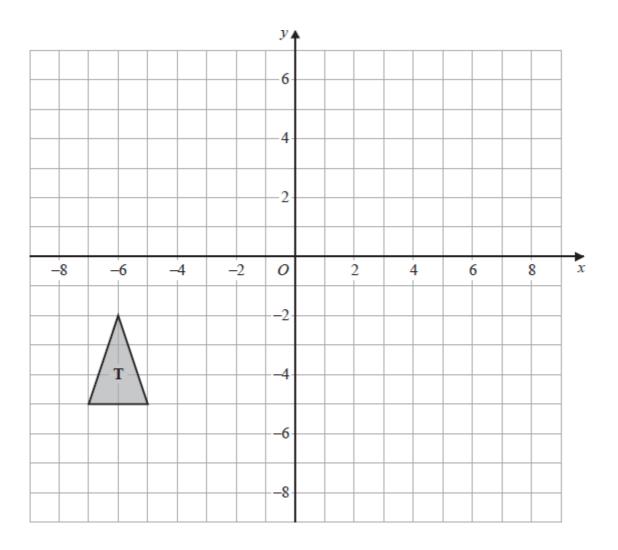
## *OAB* is a triangle. *OBC* is a sector of a circle, centre *O*.



Calculate the area of *OBC*. Give your answer correct to 3 significant figures.

 $.....cm^2 \label{eq:cm2}$  (Total for Question 14 is 4 marks)

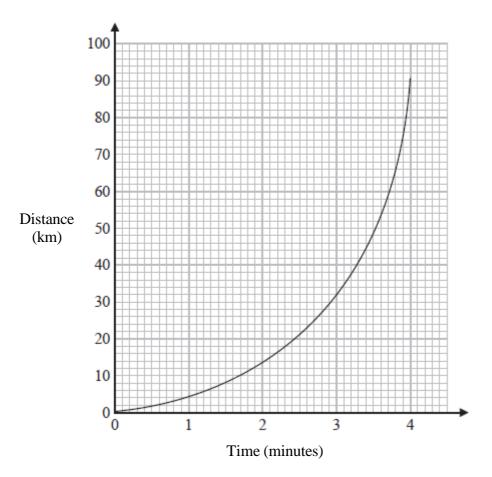
15	(a)	Factorise $p^2 - q^2$
		(1)
	( <i>b</i> )	Show that $3^{60} - 1$ is the product of two consecutive even numbers.
		(2)
		(Total for Question 15 is 3 marks)



On the grid, enlarge triangle T by scale factor -2 with centre of enlargement (-2, -4)

(Total for Question 16 is 2 marks)

17 Here is a distance-time graph.



(a) Find an estimate of the gradient of the graph at time 3 minutes. You must show how you get your answer.

(3)		
	hat does the gradient of the graph represent?	(b)
		` /
(1)		
(Total for Question 17 is 4 marks)		