

**HIGHER TIER  
MINI PRACTICE EXAM 5**



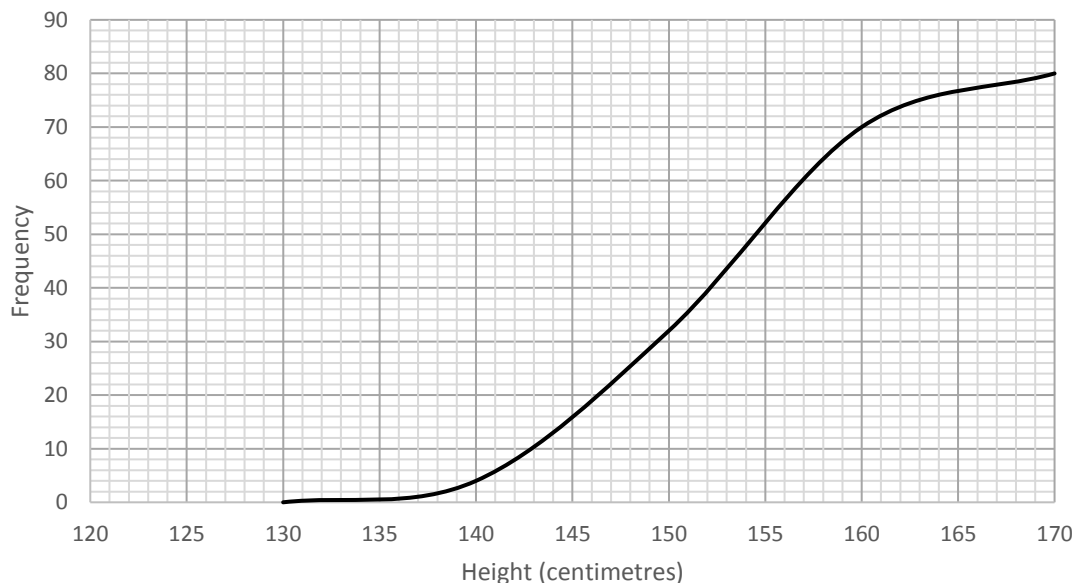
**CALCULATOR ALLOWED  
20 MINUTES ALLOWED**

1.  
A group of 90 students were asked whether they prefer Maths or English, and whether they prefer Geography or History.  
40% of the students said they prefer English.  
 $\frac{5}{6}$  of the students who prefer Maths said they prefer Geography.  
 $\frac{2}{3}$  of the students who prefer English said they prefer History.  
Complete the two-way table below.

	<b>Maths</b>	<b>English</b>	<b>Total</b>
<b>Geography</b>			
<b>History</b>			
<b>Total</b>			

(4)

2.  
The cumulative frequency graph below shows the heights of a group of 80 students.



(a) Use the cumulative frequency graph to estimate the median height.

(1)

(b) Use the cumulative frequency graph to estimate the interquartile range.

(2)

(c) Use the cumulative frequency graph to estimate how many of the students are more than 162 centimetres tall.

(1)

3.

Craig bought a car for £1,600.

The car depreciates at a rate of 26% per annum.

After how many years will Craig's car be worth less than a quarter of what he paid for it?

(3)

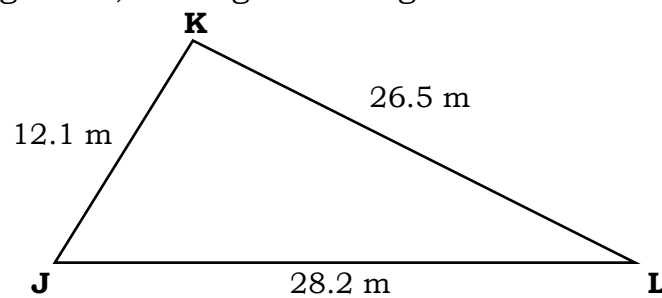
4.

Solve  $\frac{x+2}{3} + \frac{2x-1}{4} = 3$

(4)

5.

Find the size of the angle JKL, to 2 significant figures.



(5)