

Basic

1) Answer the following questions about the histogram below:



Results of Test Scores

a) How many students received a test score between 30 and 35?

b) How many students received a test score between 15 and 20?



Basic

2) Draw a histogram of the following data, which shows the width of various letters in a mailing office.

Width of letter	10-15	15-20	20-25	25-30	30-35	35-40
(cm)						
Frequency	27	35	16	10	8	3
(no. of letters)						



Core

1) The following histogram gives some information about the ages of the people who live in a particular town.



Ages of People in Town

Use the information from the histogram to complete the following frequency table:

Age (x) in years	Frequency		
0 < x ≤10	160		
10 < x ≤ 25			
25 < x ≤ 30			
31 < x ≤ 40	100		
40 < x ≤ 70	120		



Core

2) Draw a histogram for the following data:

Price range (£)	20-40k	40-60k	60-100k	100-140k	140-200k
Number of houses	15	27	50	35	22



NAME:	
CLASS:	
DATE:	

Advanced

1) On holiday, Jessica hires some roller skates. The table below shows the cost.

Number of days (n)	1	2	3	4	5
Cost (£C)	8	16	24	32	40

a) Explain why you know that the cost varies directly with the number of days.

b) Find a formula to get C when you know n.

c) Use your formula to calculate the cost of 9 days' hire.

2) Triangles of different heights (*h*) are drawn on the same base XY. The area is calculated.

Height (cm)	1	2	3	4	5
Area (cm²)	2	4	6	8	10

a) Draw a graph to illustrate the table.

b) Are the area and height in direct proportion? Give two reasons for your answer.



Advanced

3) Find the areas of the following shapes:





ANSWERS





