1. The table shows data on the height(h) of 50 seedlings(measurements expressed in mm).

class interval	mid-point	frequency	mid-point x freq.
$10 \le h < 15$		8	
$15 \le h < 20$		17	
$20 \le h < 25$		19	
$25 \le h < 30$		5	
	totals		

First complete the table. Using the information answer the questions:
(a) What is the modal class?
(b) Estimate the median height of seedlings. (whole number)
(c) Estimate the mean height of seedlings. (2 d.p.)

2. The table shows the distribution of children's age(a) in a secondary school.

class interval	mid-point	frequency	mid-point x freq.
$11 \le a < 12$		42	
$12 \le a < 13$		38	
$13 \le a < 14$		45	
$14 \le a < 15$		38	
	totals		

First complete the table. Using the information answer the questions.
(a) What is the modal class?
(b) Estimate the median age of the children at the school. (whole number)
(c) Estimate the mean age of children at the school. (2 d.p.)

3. The table shows the number of visits(v) to the doctor patients at a surgery make in a year.

class interval	mid-point	frequency	mid-point x freq.
$0 \le v < 5$		5	
$5 \le v < 10$		47	
$10 \le v < 15$		11	
	totals		

First complete the table. Using the information answer the questions.
(a) What is the modal class?
(b) Estimate the median number of visits made to the surgery in a year. (whole number)
(c) Estimate the mean number of visits made to the surgery in a year. (2 d.p.)

1.

class interval	mid-point	frequency	mid-point x freq.
$10 \le h < 15$	12.5	8	100
$15 \le h < 20$	17.5	17	297.5
$20 \le h < 25$	22.5	19	427.5
$25 \le h < 30$	27.5	5	137.5
	totals	49	962.5

(a) $20 \le h < 25$ (b) 20 mm (c) 19.64 mm

2.

class interval	mid-point	frequency	mid-point x freq.
$11 \le a < 12$	11.5	42	483
$12 \le a < 13$	12.5	38	475
$13 \le a < 14$	13.5	45	607.5
$14 \le a < 15$	14.5	38	551
	totals	163	2116.5

(a) $13 \le a < 14$ (b) 13 years old (c) 12.98 years old

3.

class interval	mid-point	frequency	mid-point x freq.
$0 \le v < 5$	2.5	5	12.5
$5 \le v < 10$	7.5	47	352.5
$10 \le v < 15$	12.5	11	137.5
	totals	63	502.5

(a) $5 \le v < 10$ (b) 8 visits (c) 7.98 visits