INFORMATION HANDLING

1. The charges made by a taxi company are shown.

   A customer is charged according to the distance travelled with extra charges added, surcharges, for busy times or a journey outside the city limits.

   Even a short journey cannot cost less than £2 since a minimum charge of £2 is made.

   The distance table shows the distance between city districts but one of them, Gerse, lies outside the city limits.

   Alba
   Beda
   Coll
   Dean
   Eppin
   Firth
   Gerse

	Alba	Beda	Coll	Dean	Eppin	Firth
Beda	2					
Coll	4	3				
Dean	7	5	1			
Eppin	6	8	3	4		
Firth	10	11	9	5	2	
Gerse	15	12	10	8	7	5

   TAXI HIRE : CHARGES

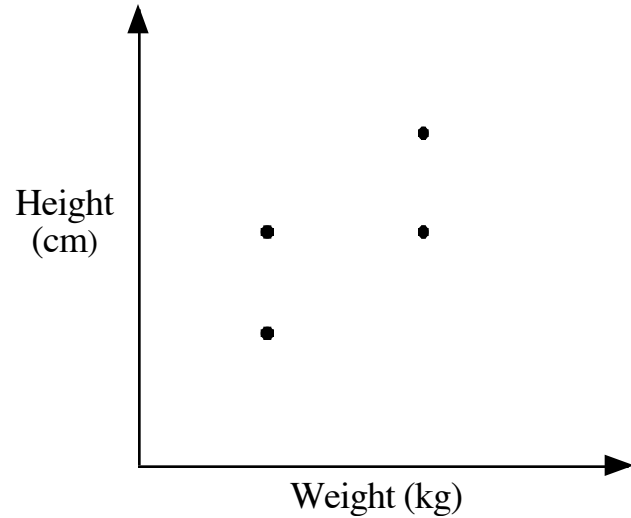 | | | | |
   |---|---|---|---|
   | **minimum charge:** | | | £2 |
   | **Surcharges:** | Sat or Sun | | £2·50 |
   | | weekday after 10 pm | | £3·50 |
   | | outside city limits | | £1·50 |
   | **mileage charge:** | first 8 miles | | £0·60 per mile |
   | | miles over 8 miles | | £0·40 per mile |

   Calculate the cost of a taxi from:

   (a) Alba to Coll on a Friday at 6 pm.   (b) Beda to Dean on a Tuesday at 10 am.

   (c) Dean to Eppin, Saturday 2 pm.   (d) Alba to Beda, Monday 11 pm.

   (e) Firth to Gerse, Tuesday 3.15 pm.   (f) Coll to Dean, Wednesday 7.30 pm.

   (g) Beda to Eppin, Friday 1.20 pm.   (h) Beda to Firth, Tuesday at 10 am.

   (i) Alba to Firth, Monday 11.50 am.   (j) Coll to Gerse, Friday at 8.40 pm.

   (k) Alba to Coll and then on to Eppin on a Saturday at 7 am.

   (l) Eppin to Alba and then on to Beda on a Monday at 10.15 pm.

   (m) Beda to Firth and then on to Dean on a Friday at 7 am.

   (n) Coll to Alba and then on to Firth on a Tuesday at 8 pm.

   (o) Alba to Dean and then on to Gerse on a Thursday at 6 am.

   (p) John gets a taxi at 11.25 pm on a Wednesday and is charged £7·10.

   Between which two city districts did John travel?

   (q) Jill gets a taxi at 9.45 am on a Saturday and is charged £7·00.

   Between which two city districts did John travel?

2. Anne, Bill, Chris and Dave measured their height and weight.
   The results are shown in the table and plotted on a graph.

   (a) Copy the graph and label the points A, B, C or D for the correct person.

	Height (cm)	Weight (kg)
Anne	172	74
Bill	178	82
Chris	172	82
Dave	168	74

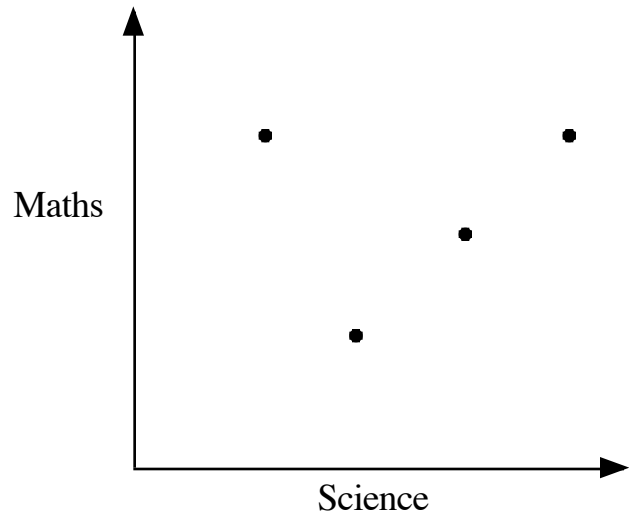|	Height (cm)	Weight (kg)
Ellie	168	82
Fred	178	86

Height (cm) — Weight (kg)

   (b) Use the information in the second table to mark and label E and F, the positions of Ellie and Fred.

3. The mathematics and science marks of some students are shown in the table and plotted on a graph.

   (a) Copy the graph and label the points A, B, C or D for the correct person.

	Maths	Science
Andy	87	34
Brian	87	81
Cath	32	42
Don	64	74

	Maths	Science
Emma	64	34
Fee	32	81

Maths — Science

   (b) Use the information in the second table to mark and label E and F, the positions of Emma and Fee.

4. Alison, Betty and Colin were taking part in a club quiz.

A correct answer gained: 2 points in round 1
    3 points in round 2.
A wrong answer gained no points in either round.

Copy the table shown and use the clues to fill in the missing entries.

	Alison	Betty	Colin
Round 1: points		8	
Round 2: points			
TOTAL POINTS	24		

Clues: 1. Alison got the same number of points in each round.

    2. Alison and Colin got the same number of total points.

    3. Colin got twice as many questions correct in round 2 than round 1.

    4. Betty won by 1 point.

5. Alan, Brian and Carol were taking part in a club quiz.

A correct answer gained: 5 points for a hard question
    3 points for an easy question
No points were awarded for a wrong answer.

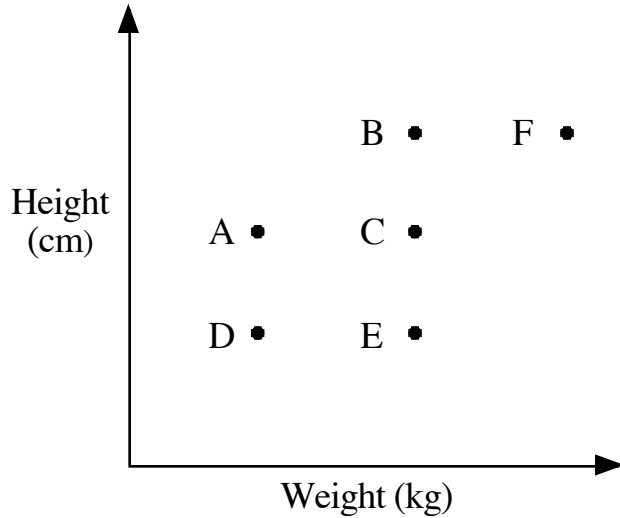Copy the table shown and use the clues to fill in the missing entries.

	Alan	Brian	Carol
Easy Questions: points			
Hard Questions: points			
TOTAL POINTS			

Clues: 1. Each competitor got 12 questions correct.

    2. Alan got twice as many easy as hard questions correct.

    3. Carol got as many hard as easy questions correct.
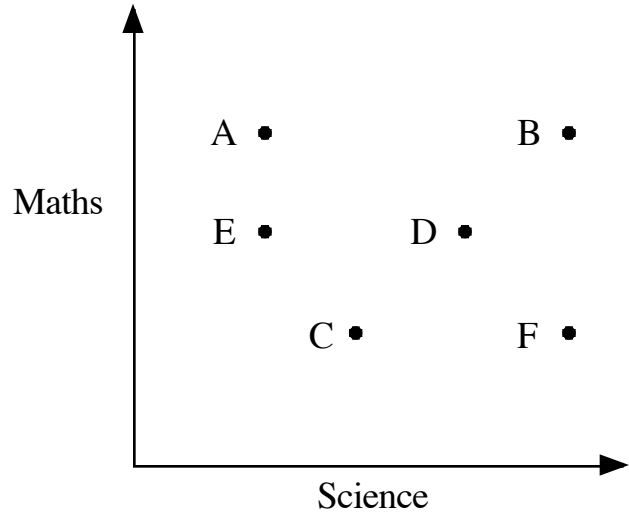
    4. Carol won by 2 points.

ANSWERS

1. (a) £2·40   (b) £3·00   (c) £4·90   (d) £4·70   (e) £4·50   (f) £2·00

    (g) £4·80   (h) £6·00   (i) £5·60   (j) £7·10   (k) £4·20   (l) £4·80

    (m) £8·00   (n) £7·20   (o) £9·10   (p) Alba , Eppin   (q) Firth , Gerse

2.

3.

4.

	Alison	Betty	Colin
Round 1: points	6	8	3
Round 2: points	4	3	6
TOTAL POINTS	24	25	24

5.

	Alan	Brian	Carol
Easy Questions: points	8	7	6
Hard Questions: points	4	5	6
TOTAL POINTS	44	46	48