

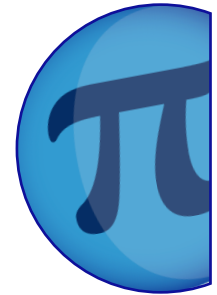


Can Eating Fish Prevent Murder?

NAME:

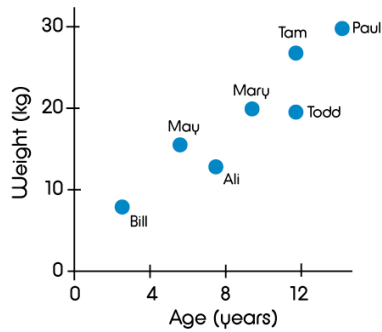
CLASS:

DATE:



Basic

1) This scattergraph shows the ages and weights of several children.



a) Who is the oldest child and what is their weight?

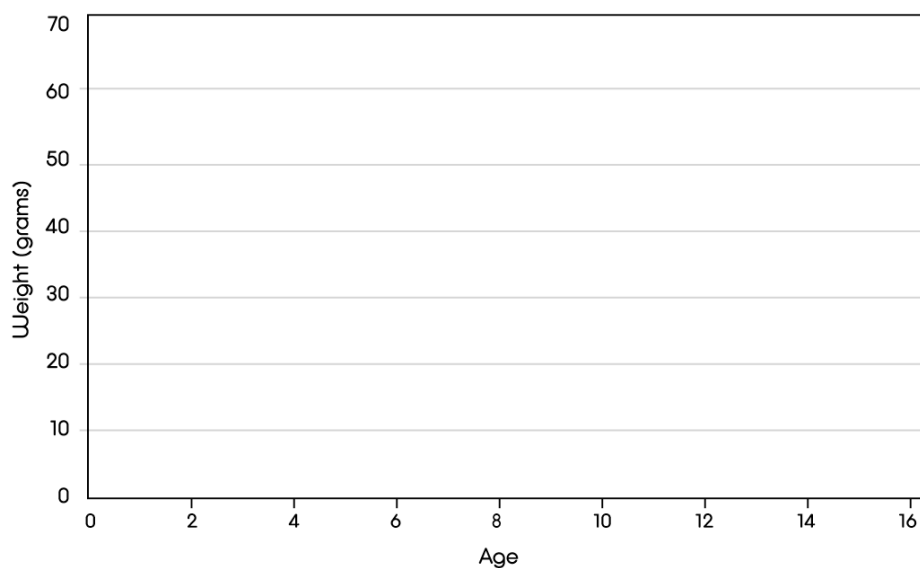
b) What is unusual about both Ali and Todd?

2) The data below shows the age (in days) and weight (in grams) of 10 pet rats.

Age	10	11	6	4	3	9	5	14	8	10
Weight	50	50	25	20	15	40	30	60	20	45

a) Draw a scatter diagram for this information.

b) Draw the line of best fit.





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Basic

2) c) Use the line of best fit to estimate the age of a rat that weighs 35 grams.

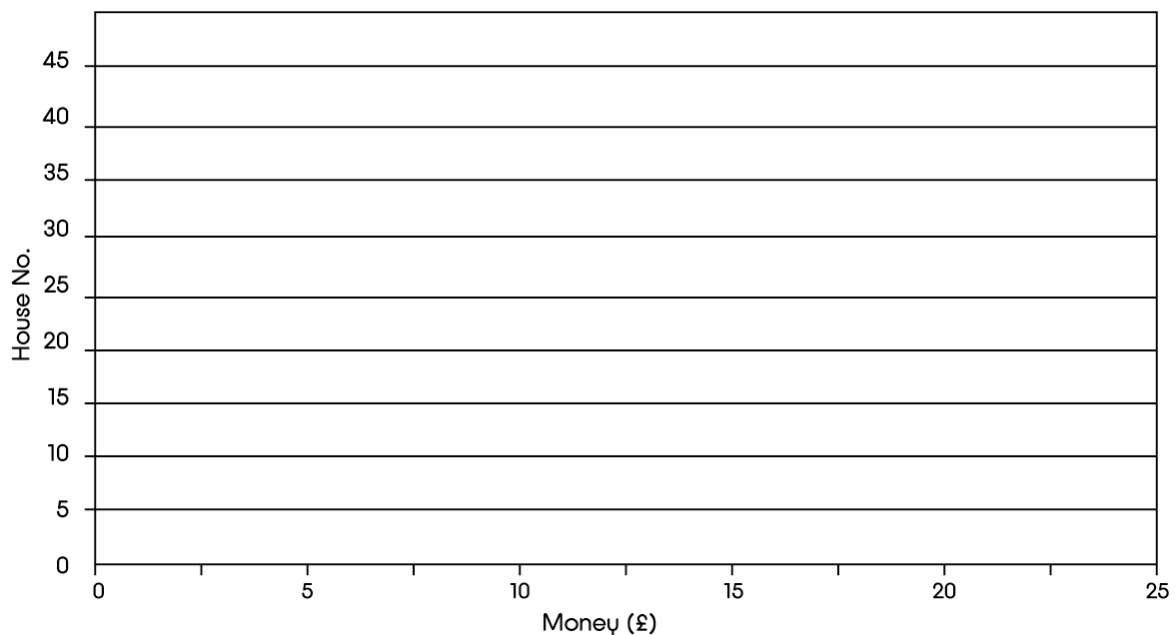
d) One of the rats has been poorly. Which one?

e) Describe the correlation between the age of a rat and its weight.

3) The data below shows the house number and pocket money of students.

Money (£)	5	10	5	10	20	18	10	5	15	10
House No.	12	9	30	1	20	40	30	15	35	28

a) Draw a scatter diagram for this information.



b) Is it possible to draw a line of best fit?

c) Is there a correlation between the house number and pocket money of students?



Can Eating Fish Prevent Murder?

NAME:

CLASS:

DATE:



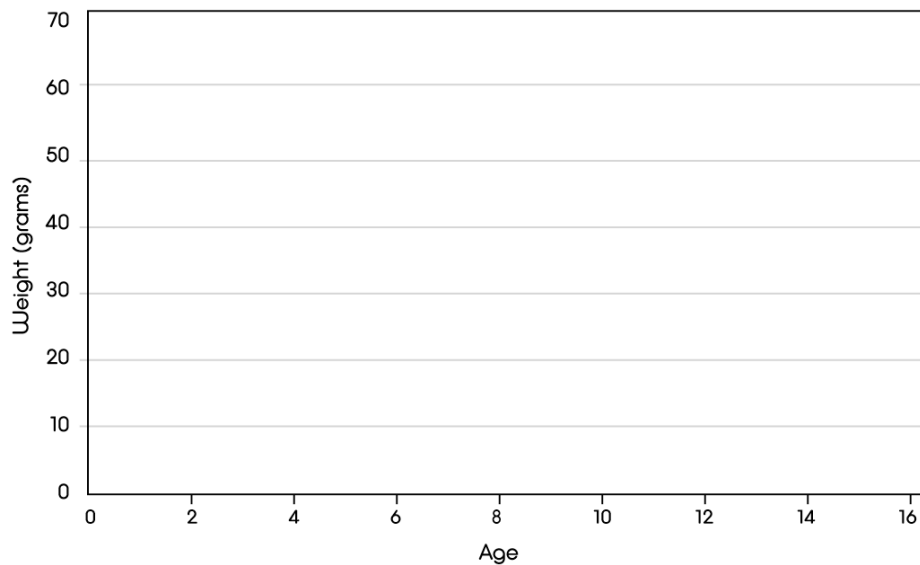
Core

1) The data below shows the age (in days) and weight (in grams) of 10 pet rats.

Age	10	11	6	4	3	9	5	14	8	10
Weight	50	50	25	20	15	40	30	60	20	45

a) Draw a scatter diagram for this information.

b) Draw the line of best fit.



c) Use the line of best fit to estimate the age of a rat that weighs 35 grams.

d) One of the rats has been poorly. Which one?

e) Describe the correlation between the age of a rat and its weight.



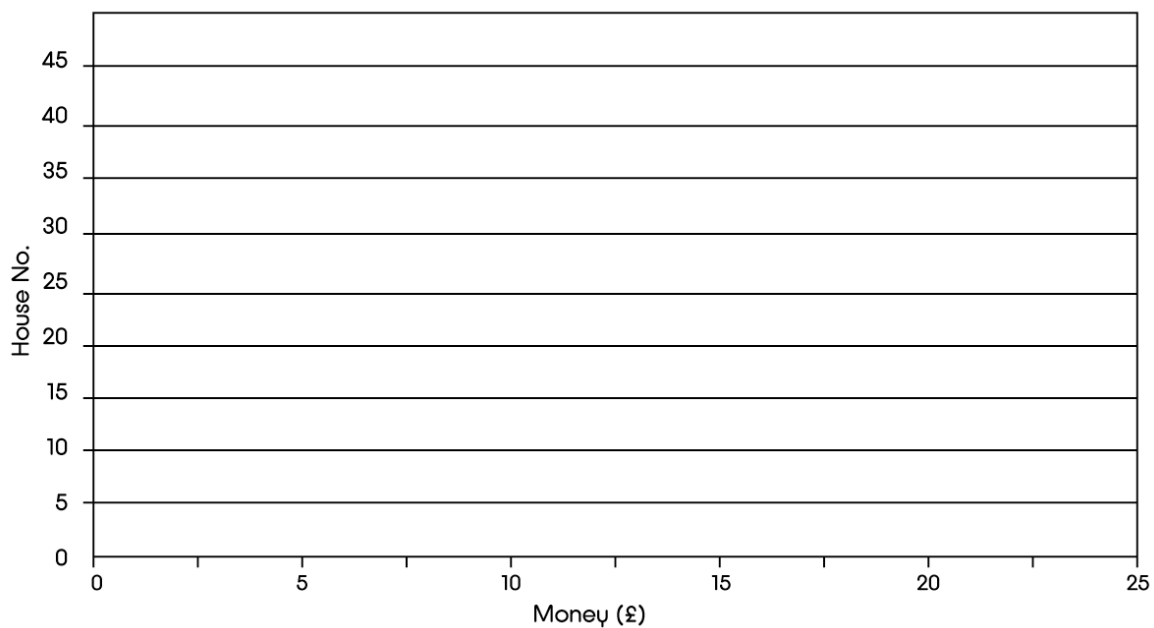
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Core

2) The data below shows the house number and pocket money of students.

Money (£)	5	10	5	10	20	18	10	5	15	10
House No.	12	9	30	1	20	40	30	15	35	28

a) Draw a scatter diagram for this information.



b) Is it possible to draw a line of best fit?

c) Is there a correlation between the house number and pocket money of students?



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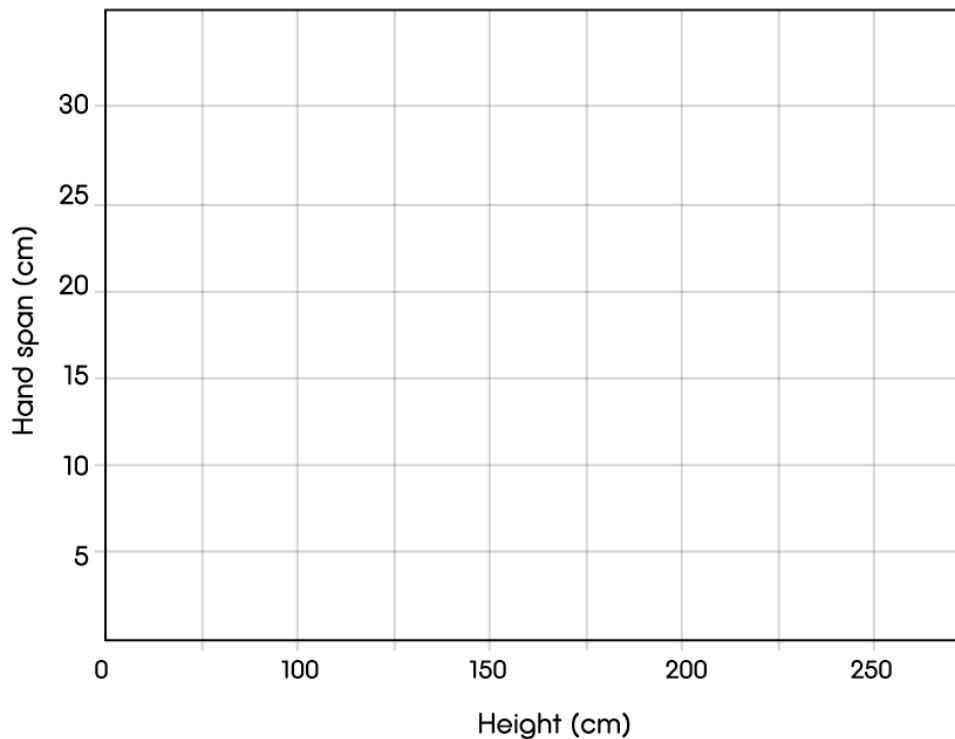
Core

3) Do taller people have bigger hands?

a) Collect the heights and hand spans from members of your group and record them in a table similar to that below.

Student	Height (cm)	Hand span (cm)

b) Draw a scatter diagram using this information.



c) Is the statement "taller people have bigger hands" true for your group?



Can Eating Fish Prevent Murder?

NAME:

CLASS:

DATE:



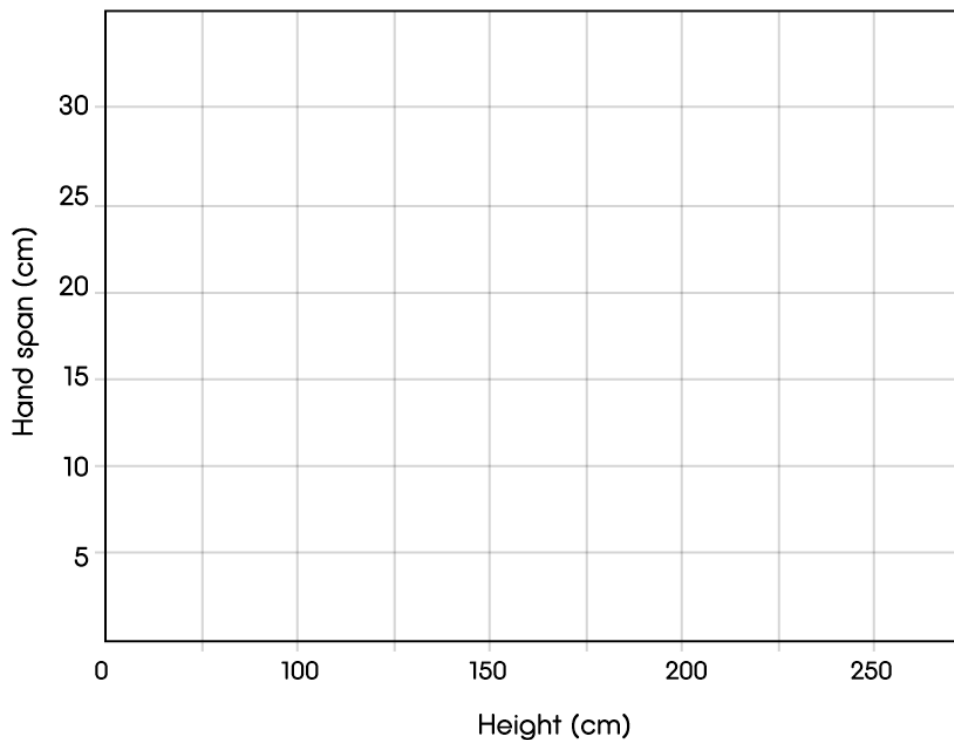
Advanced

1) Do taller people have bigger hands?

a) Collect the heights and hand spans from members of your group and record them in a table similar to that below.

Student	Height (cm)	Hand span (cm)

b) Draw a scatter diagram using this information.



c) Is the statement "taller people have bigger hands" true for your group?



Can Eating Fish Prevent Murder?

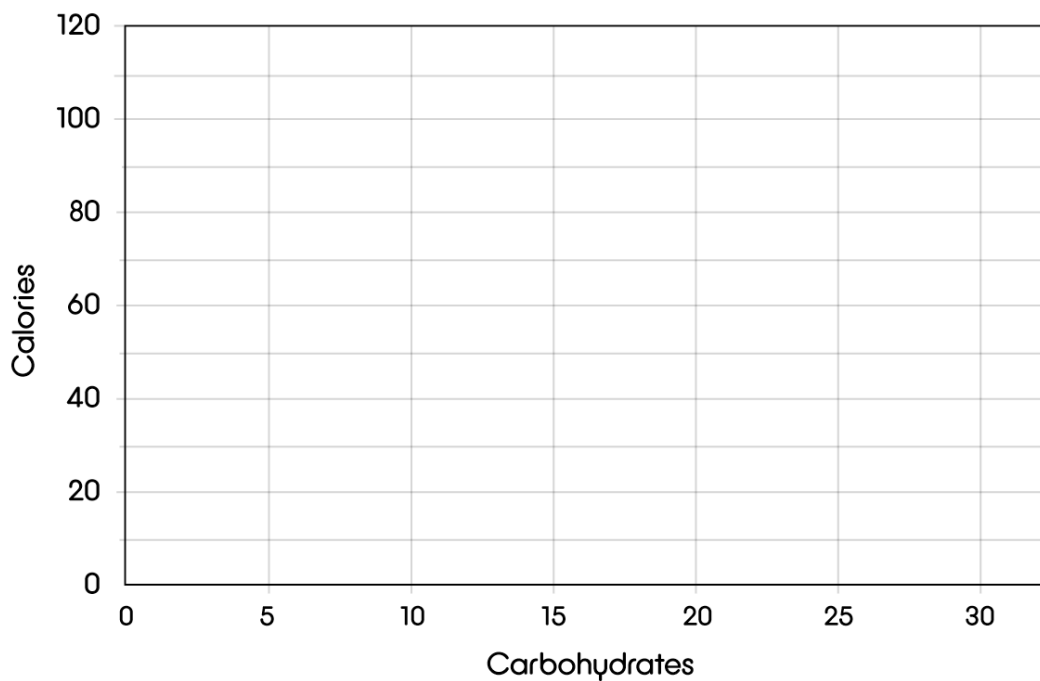
Advanced

2) The table below shows the number of calories and number of grams of carbohydrate in equivalent servings of different vegetables.

Carbohydrates	10	25	4	6	20	8	12	13	16
Calories	46	100	19	23	105	35	45	75	80

a) Draw a scatter diagram for this information.

b) Draw the line of best fit.



c) Use the line of best fit to estimate the number of calories if a vegetable contains 15g of carbohydrate.

d) Describe the correlation.

e) Is this a causal relationship?



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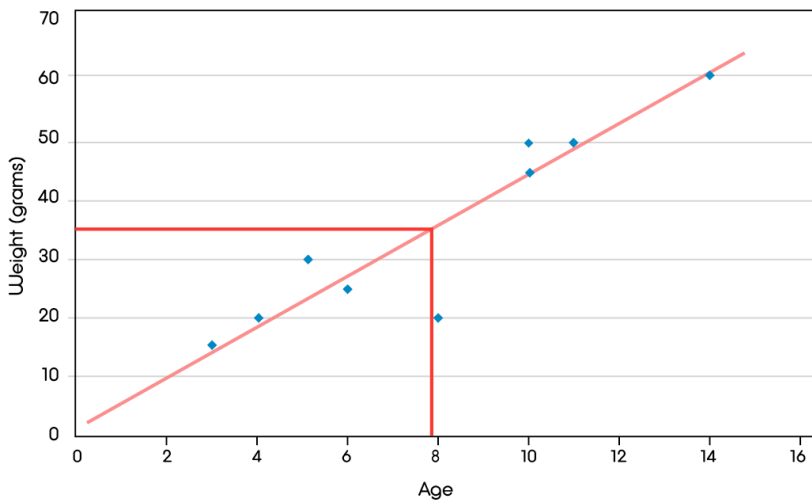
ANSWERS

Basic

1) a) Paul 30kg

b) They are lighter than expected for their ages.

2) a) & b)



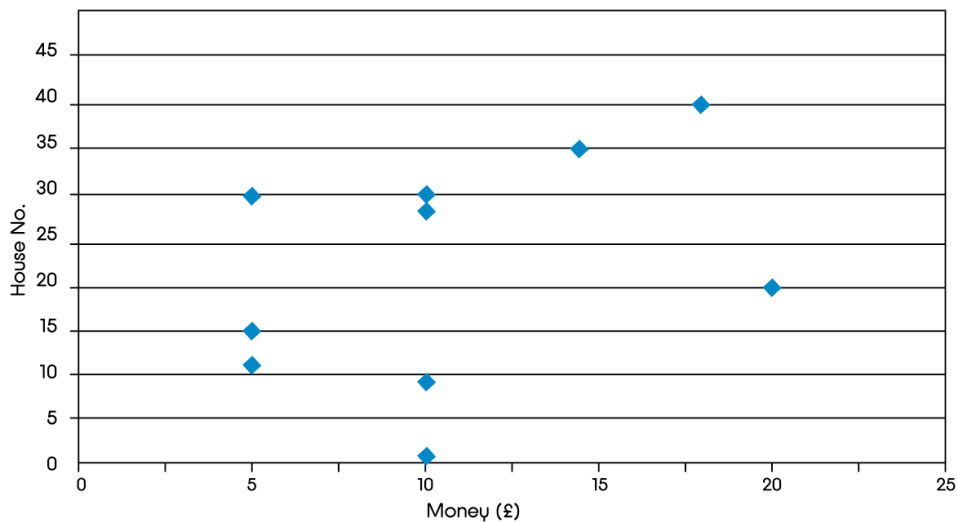
c) 8 days

d) The 8-day-old one

e) Positive

3) b) There is no line of best fit

c) There is no correlation



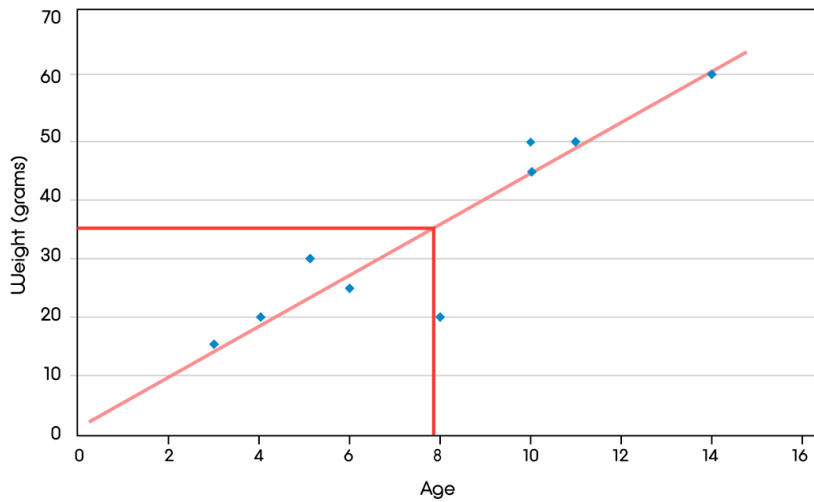


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ANSWERS

Core

1) a) & b)

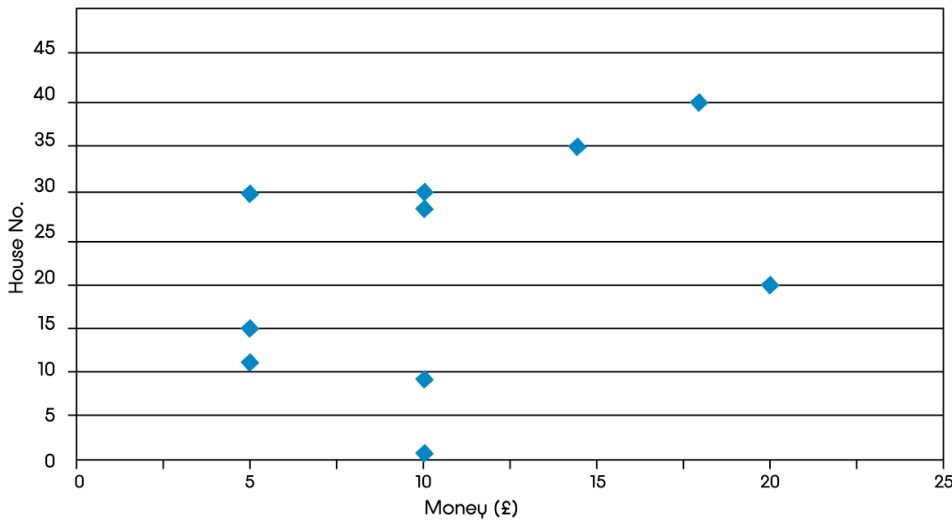


c) 8 days

d) The 8-day-old one

e) Positive

2) a)



b) There is no line of best fit

c) There is no correlation

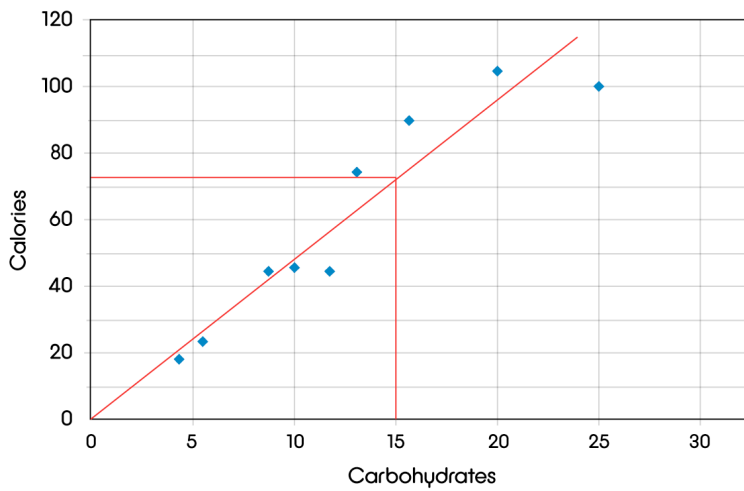


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ANSWERS

Advanced

2) a) & b)



c) 72

d) Positive

e) Yes