Countdown to your final Maths exam … Foundation Tier only … Part 6 (2020)

	Marks	Actual	😠 😐 😀
Q1. Pictograms	4		
Q2. Time	3		
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Q8. Coordinates	2		
Q9. Bar Charts	4		
Q10. Time	5		
Q11. Coordinates	3		
Q12. Tally charts / Bar charts	6		
Q13. Coordinates	3		
Q14. Timetables	5		

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NON-CALCULATOR UNLESS INDICATED
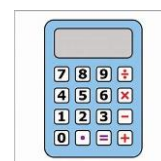
Questions

Q1. The pictogram shows the number of tins of dog food sold in a shop on Monday, on Tuesday and on Wednesday last week.

Monday	◯ ◯ ◯
Tuesday	◯ ◯ ◯ ◯ ◖
Wednesday	◯ ◯ ◖
Thursday	
Friday	

Key: ◯ represents 10 tins

On Thursday, 60 tins of dog food were sold in the shop.
On Friday, 35 tins of dog food were sold in the shop.

(a) Use this information to complete the pictogram.

(2)

More tins of dog food were sold on Tuesday than on Monday.

(b) How many more tins?

(2)

Q2. Here is a clock in a school.

(a) (i) School starts 15 minutes earlier than the time shown on the clock.

What time does school start?

(ii) The first lesson ends 45 minutes after the time shown on the clock.

What time does the first lesson end?

(2)

(b) School finishes at 3.20 pm.

Write 3.20 pm using the 24-hour clock.

(1)

Q3.

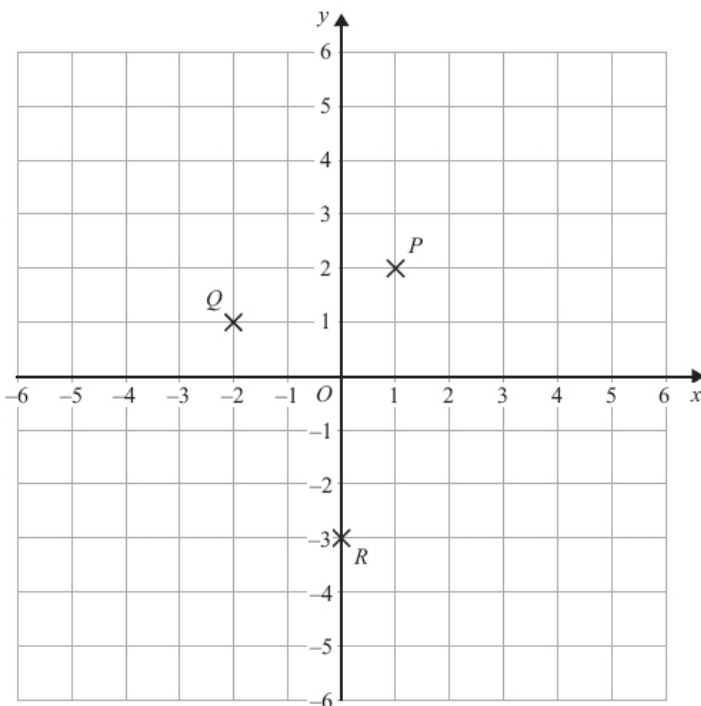(a) Write down the coordinates of the point
   P.

   (. . . . . , ...)
   (1)

(b) Write down the coordinates of the point
   R.

   (. . . . . , ...)
   (1)

P, *Q* and *R* are three vertices of a
   parallelogram.

(c) Write down the coordinates of the fourth
   vertex of this parallelogram.

   (. . . . . , ...)

(1)

Q4. Here is the value of each of 20 coins.

50p	10p	£1	20p	£1
20p	£1	20p	50p	10p
50p	20p	20p	£1	20p
£1	£1	20p	20p	£1

(a) Complete the table.

Value of coin	Tally	Frequency
10p		
20p		
50p		
£1		

(3)

(b) Work out the total value of the 20 coins.

(2)

Q5. A film starts at 17 50   The film ends at 19 30

(a) How long does the film last?

(2)

Jackie buys some tickets to see the film. Each ticket costs £4.50

Jackie pays with two £20 notes. Jackie gets £8.50 change.
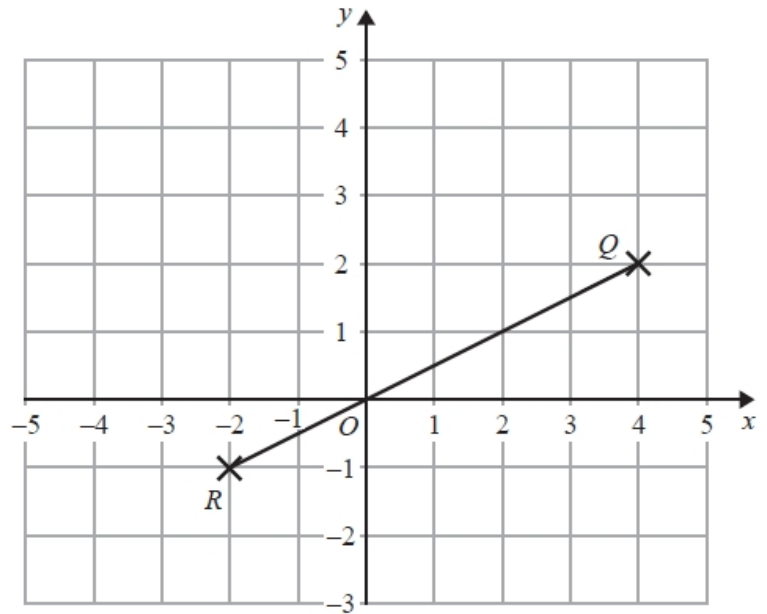
(b) How many tickets did Jackie buy?

(3)

Q6.

(a) Write down the coordinates of the point Q.

(......................... , ...)
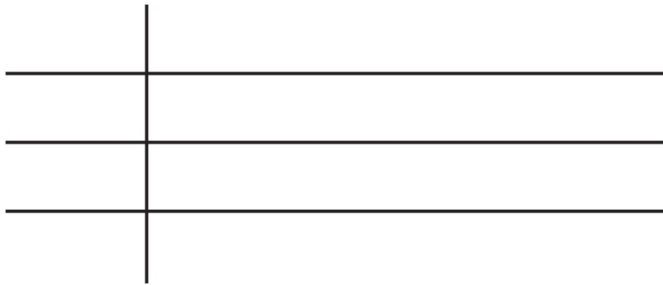
(1)

M is the midpoint of the line RQ.

(b) On the grid, mark with a cross (**X**) the point M.

(1)

Q7. Jeremy catches 19 fish. Here are the weights, in grams, of the fish.

50	61	57	47	53	75	62	48	64	73
78	51	66	58	66	48	55	69	50	

Draw an ordered stem and leaf diagram for these weights.
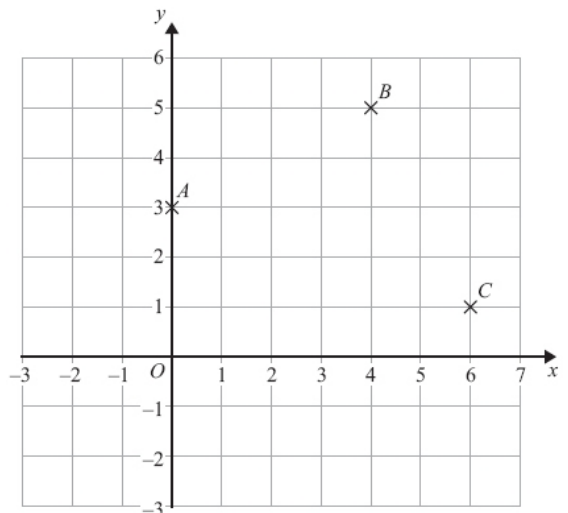
Key:

(3)

Q8.

(a) Write down the coordinates of the point B

(1)

A, B and C are three corners of a square.

(b) On the grid, mark with a cross (×) the point D so that ABCD is a square.

(1)

Q9. Wizard and Reds are two basketball teams.

The table shows some information about the total number of points scored by Wizard and the total number of points scored by Reds in each of four months last year.

	September	October	November	December
Wizard	20	27	19	33
Reds	18	26	38	30

On the grid, draw a suitable diagram to show this information.

(4)
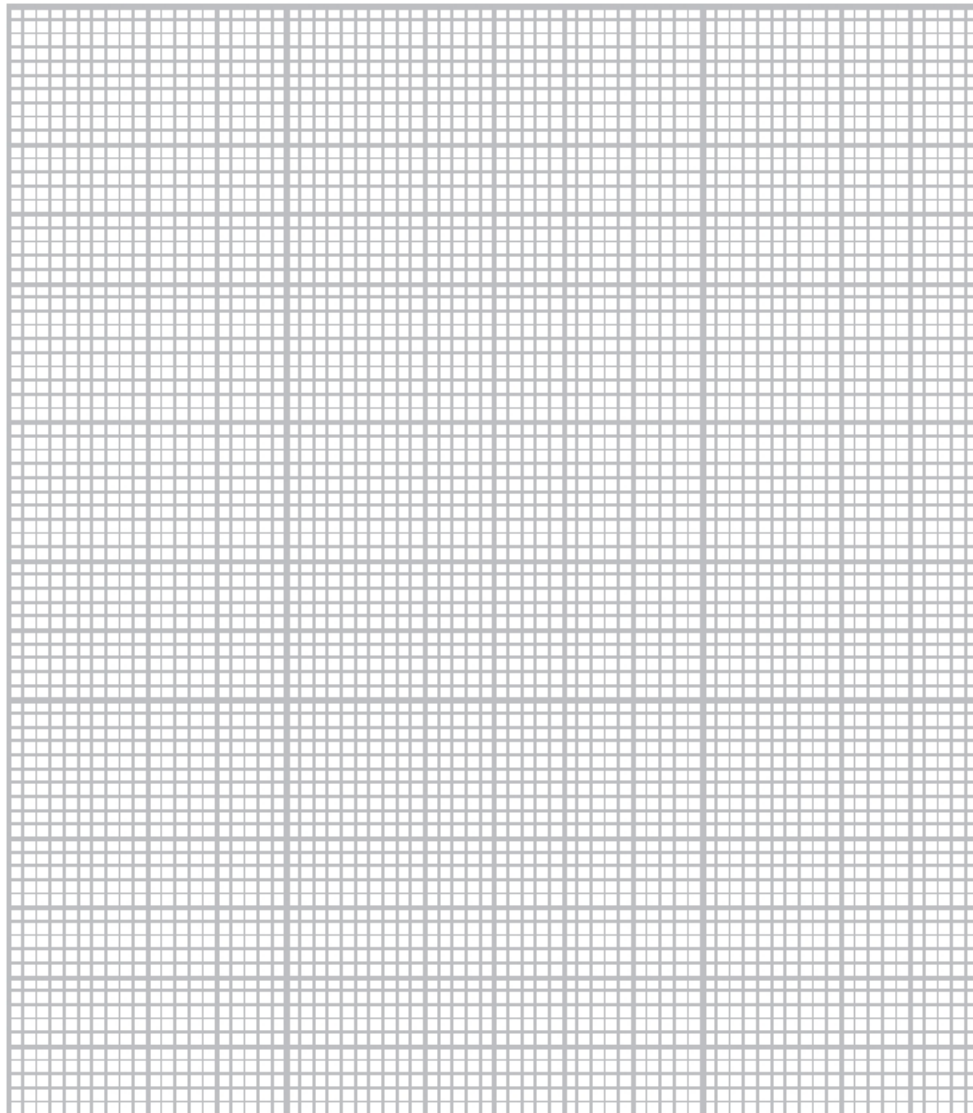
Q10. (a) How many minutes are there between 8.50 pm and 10.05 pm?

(1)

(b) (i) Write 15 25 using the 12-hour clock.

(ii) Write 9.15 pm using the 24-hour clock.

(2)

Lucy and Saad went to a cafe on the same day.

Lucy was in the cafe from 10.15 am to 10.45 am.
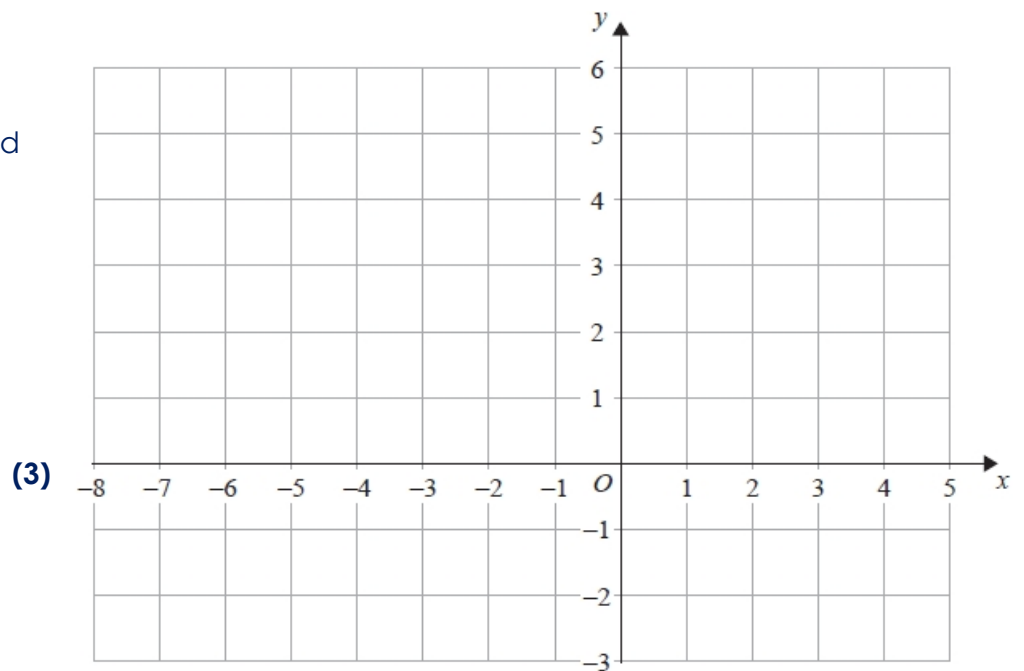Saad was in the cafe from 10.25 am to 11.05 am.

(c) Work out the number of minutes that Lucy and Saad were in the cafe at the same time.

(2)

Q11.

The points (–3, –1), (–2, 2) and (3, 2) are three vertices of a parallelogram.

Find the coordinates of the fourth vertex of the parallelogram.

(3)

**Q12.** Here is a list of the weeds in Hari's garden.

daisy	buttercup	clover	daisy	dandelion
clover	daisy	clover	daisy	dandelion
clover	daisy	daisy	clover	clover
dandelion	dandelion	clover	buttercup	clover

(a) Show this information in a frequency table.

(2)

Type of weed	Tally	Frequency
daisy		
buttercup		
clover		
dandelion		

(b) Draw a suitable chart or diagram to show this information.
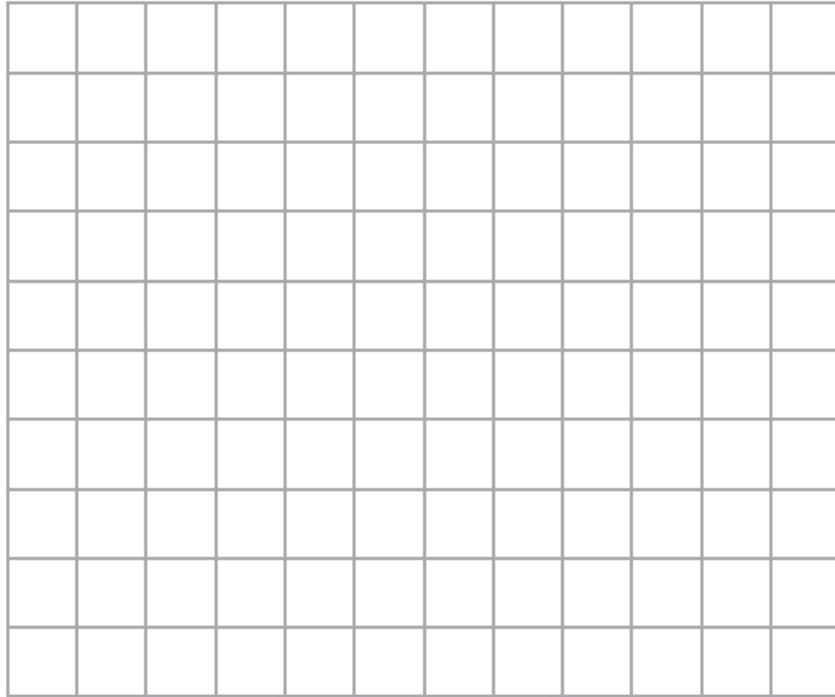
(3)

(c) What type of weed is there most of?

(1)

Q13. The points *A*, *B*, *C*, *D*, *E* and *F* are shown on the grid.
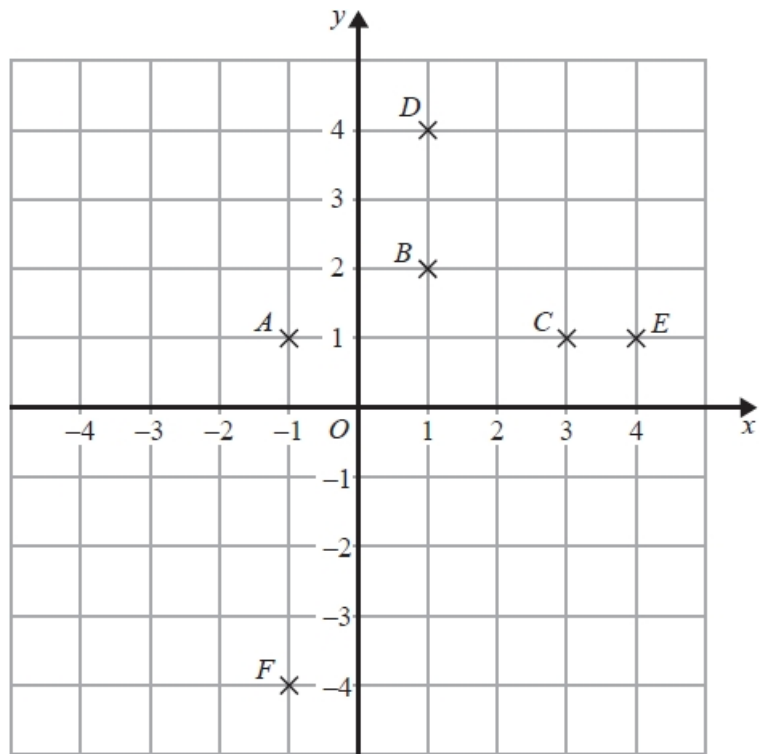
One of these points has coordinates (4, 1).

(a) Which point?

(1)

(b)   (i) On the grid, mark with a cross (×) a point *P* such that the shape *ABCP* is a kite. Label your point *P*.

(ii) Write down the coordinates of your point *P*.

(2)

Q14. Emma lives in Manchester. She is planning to travel from Manchester to Blackpool.

The timetable shows information about the times of the trains Emma can catch from Manchester.

Manchester to Blackpool

Manchester	08 00	09 15	10 30
Bolton	08 20	09 30	10 57
Preston	08 45	09 55	11 25
Blackpool	09 30	10 40	11 52

(a) Emma is going to meet her friend in Blackpool at 11 am. What is the time of the latest train she can catch?

(1)

(b) Work out the least time one of these trains takes from Manchester to Blackpool.

(3)

(c) Emma and her friend spend $\frac{3}{4}$ hour having lunch. Write $\frac{3}{4}$ hour in minutes.

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(1)