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Pearson Edexcel
Level 1/Level 2 GCSE (9 - 1)

Centre Number

Candidate Number

Mathematics
Paper 1 (Non-Calculator)

Foundation Tier

Mock Set 2 – Spring 2017
Time: 1 hour 30 minutes

Paper Reference
1MA1/1F

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. Tracing paper may be used.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
  - *there may be more space than you need.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may not be used.**

Information

- The total mark for this paper is 80
- The marks for **each** question are shown in brackets
  - *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ▶

S 5 3 6 0 2 A 0 1 2 0

Pearson

6   The table shows the number of TVs sold in a shop on each of five days.

Day	Mon	Tue	Wed	Thu	Fri
Number of TVs sold	8	12	9	6	8

David uses this information to draw the graph below.

TVs sold

Number of
TVs sold
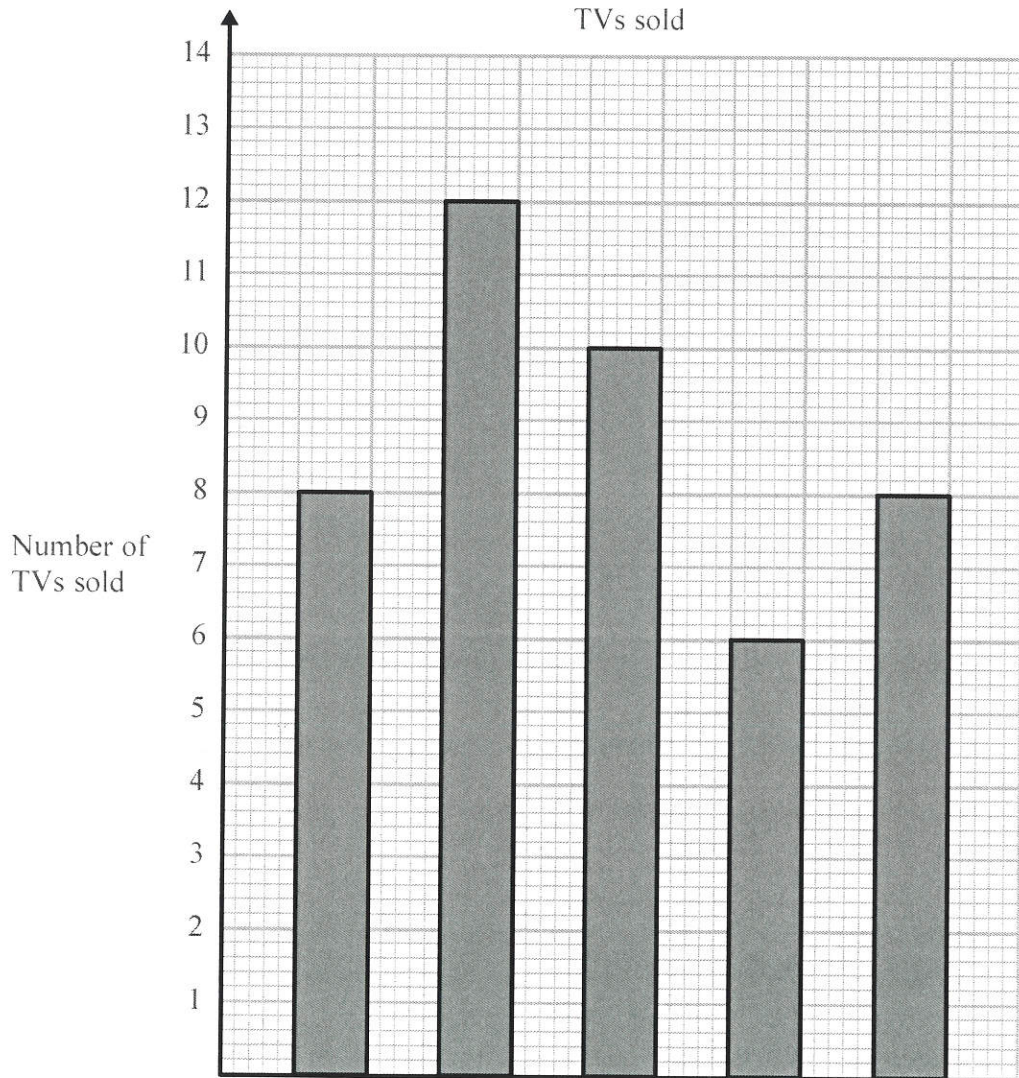
Write down **three** things wrong with this graph.

1 ....

2 ....

3 ....
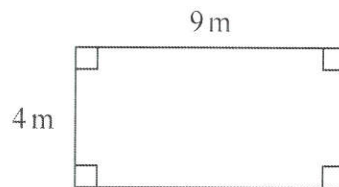
(Total for Question 6 is 3 marks)

9 Shirley has a garage.

Here is a plan of her garage floor.

9 m

4 m

Shirley wants to buy enough paint to cover the garage floor as cheaply as possible.
She can buy her paint from Decor U or from Paint Store.

| **Decor U**
Floor paint

£3.70 each tin
1 tin covers 12 m² |

| **Paint Store**
Floor paint

£3.00 each tin
1 tin covers 10 m² |

From which of these two shops should Shirley buy her paint?
You must show all your working.
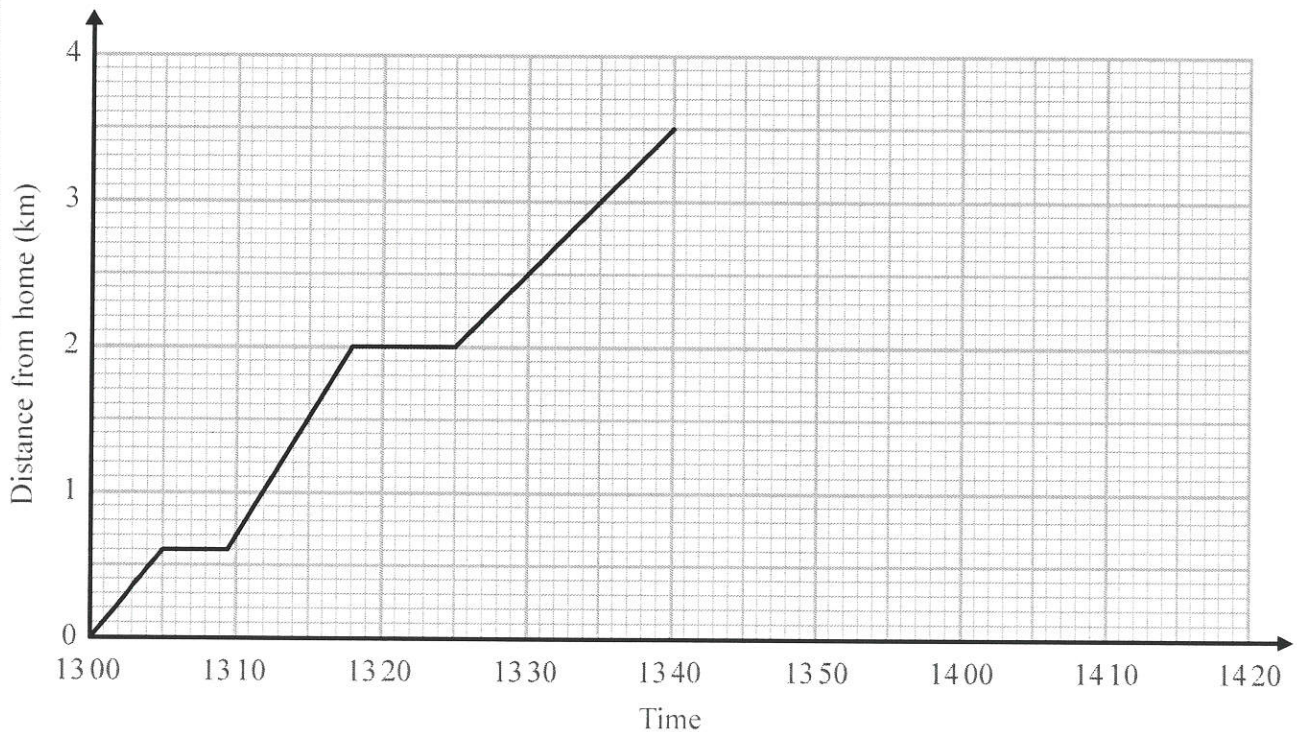
(Total for Question 9 is 4 marks)

S 5 3 6 0 2 A 0 5 2 0

11 Arshad delivers parcels on his bike.
He starts from his home.

Here is the travel graph for the first 40 minutes of Arshad's journey.

(a) What time did Arshad start his journey?

.... (1)

Arshad had to stop to deliver each parcel.

(b) How long, in minutes, did his first stop take?

.... minutes (1)

(c) What is the distance between the two stops shown on the travel graph?

.... km (2)

At 13 40, Arshad stopped for 10 minutes to deliver his last parcel.
He then cycled home at a steady speed.
Arshad got home at 14 15

(d) Complete the travel graph to show this information.

(2)

(Total for Question 11 is 6 marks)

S 5 3 6 0 2 A 0 7 2 0

14 The table below shows some information about the number of times each student in a class was late last week.

Lates	Frequency
0	15
1	8
2	3
3	3
4	1

Work out the mean number of lates per student.

(Total for Question 14 is 3 marks)

15 3 jars of paprika and 4 packets of sage have a total weight of 290 grams.
7 jars of paprika have a total weight of 210 grams.

Work out the total weight of 2 jars of paprika and 2 packets of sage.
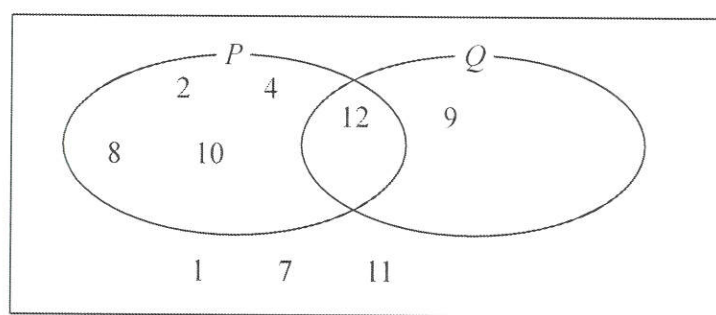
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(Total for Question 15 is 4 marks)

Turn over

17 The numbers 1, 2, 4, 7, 8, 9, 10, 11 and 12 are put into a Venn diagram.

The number 3 is in set Q but not in set P.
The number 6 is in both set P and set Q.

(a) Complete the Venn diagram.

(2)

A student chooses at random a number in the completed Venn diagram.

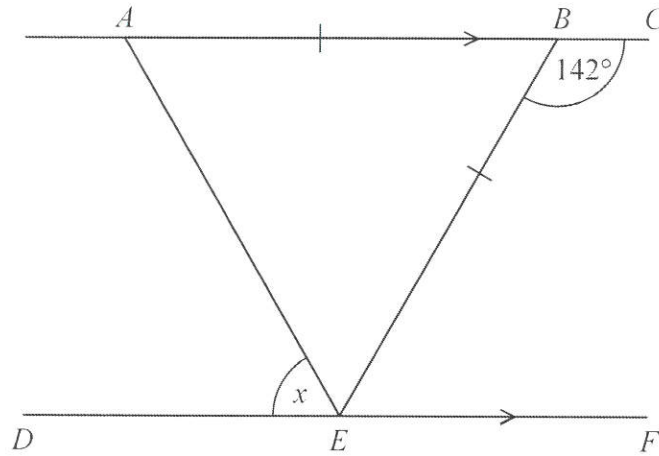(b) Write down the probability that this number is **not** in Set Q.

(2)

(Total for Question 17 is 4 marks)

19

ABC and *DEF* are parallel straight lines.
ABE is an isosceles triangle with *AB* = *BE*.
Angle *CBE* = 142°

Work out the size of angle *x*.
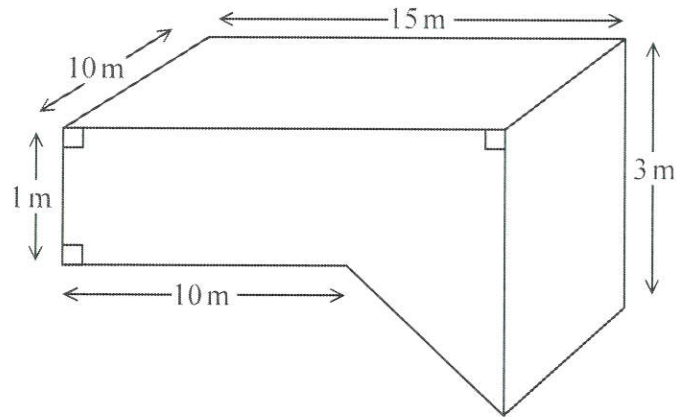Give a reason for each stage in your working.

(Total for Question 19 is 5 marks)

21

The diagram shows a swimming pool.
The swimming pool is in the shape of a prism.
The swimming pool is filled with water at a rate of 5 litres per second.

Jeremy has 10 hours to fill the swimming pool.
$1 \, m^3 = 1000$ litres.

Will he completely fill the swimming pool in 10 hours?
You must show all your working.

(Total for Question 21 is 5 marks)

Turn over ▶

23 Graham has a fair red 6-sided dice and a fair blue 8-sided dice.
The red dice can land on 1, 2, 3, 4, 5 or 6
The blue dice can land on 1, 2, 3, 4, 5, 6, 7 or 8

Graham is going to roll both dice.

(a) Complete the probability tree diagram.

Red dice

Blue dice

land on a 6

land on a 6

does **not**
land on a 6

does **not**
land on a 6

land on a 6

does **not**
land on a 6
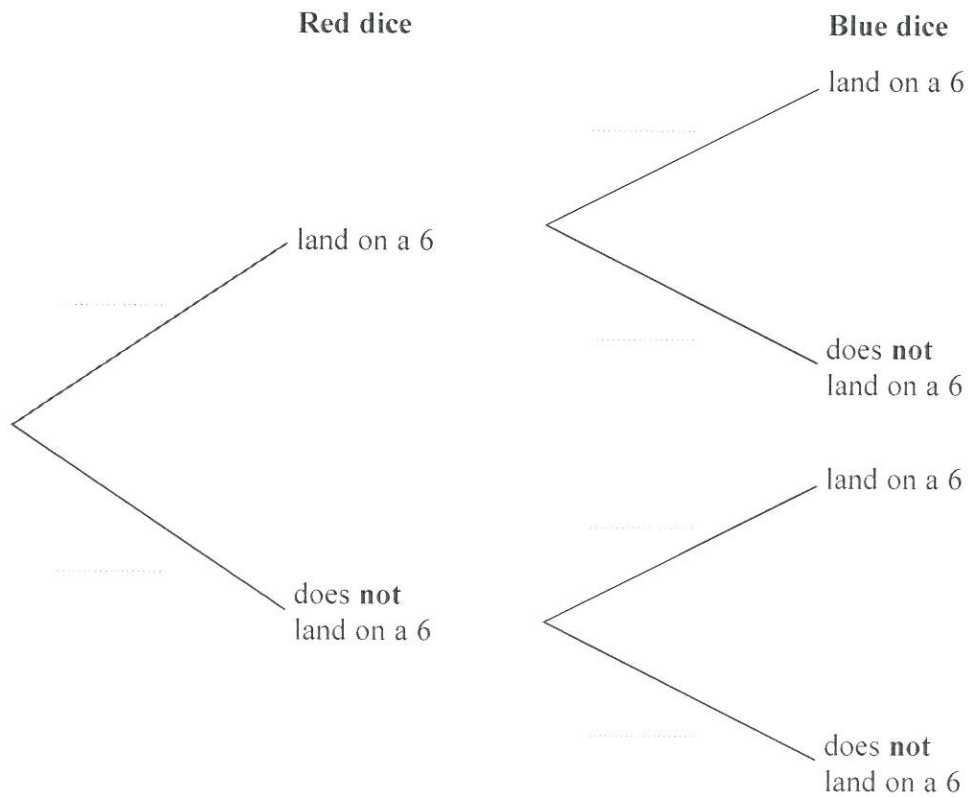
(2)

(b) Work out the probability that neither dice will land on a 6

(2)

(Total for Question 23 is 4 marks)