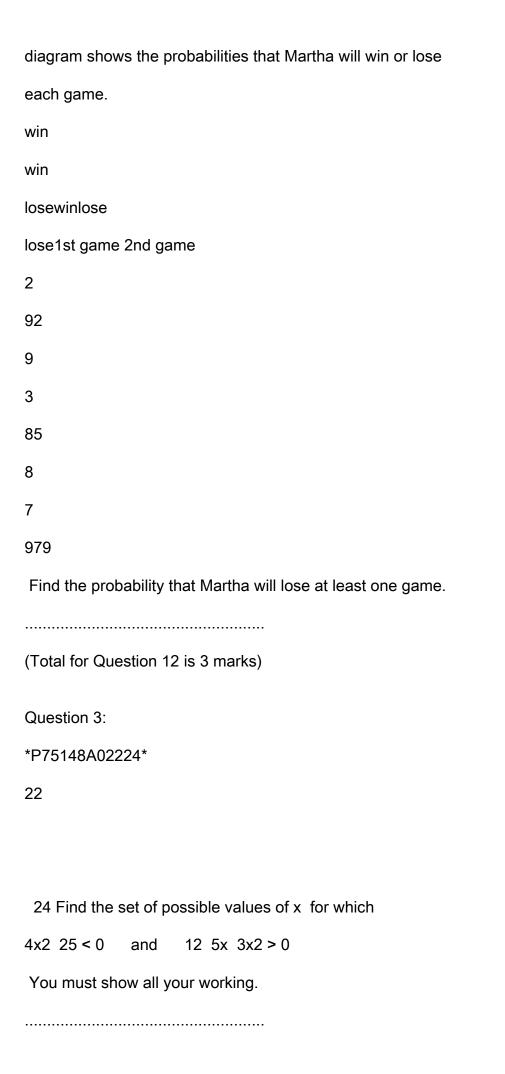
Question 1:
P75148A0424
4
4 The table shows information about the daily rainfall in a town for 60 days.
Rainfall (R mm) Frequency
0 R < 58
5
R < 10 24
10 R < 15 13
15 R < 20 11
20 R < 25 4
Draw a frequency polygon for this information.
0 5 10 15 20 2530
2010
0
Rainfall (R mm)Frequency
(Total for Question 4 is 2 marks)
Question 2:
P75148A01224
12

The probability tree

12 Martha plays a game twice.



TOTAL FOR PAPER IS 80 MARKS
Question 4:
P75148A0924 Turn over
9
9
5 5 10 15 O5
5
10
152y = 3x 22
2 2y = xxy
Use these graphs to solve the simultaneous equations
2 2
y = x
2y = 3x 22
x =
y =
(Total for Question 9 is 1 mark)
Question 5:
P75148A02324
23

(Total for Question 24 is 5 marks)

Question 6:

P75148A0124

Turn over

P75148A

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N:1/1/1/1/Please check the examination details below before entering your candidate information

Candidate surname Other names

Centre Number Candidate Number

Pearson Edexcel Level 1/Level 2 GCSE (91)

Friday 19 May 2023

Morning (Time: 1 hour 30 minutes) 1MA1/1HPaperreference

Total Marks Mathematics

PAPER 1 (Non-Calculator)

Higher Tier

Y ou must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, Formulae Sheet (enclosed). Tracing paper may be used.

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. Try to answer every question. Check

Question 7:		
P75148A02024		
20		
22 ABCDEFGH is a cuboid.		
A DG		
BEH		
CF		
AF = 6.8 cm		
FC		
= 13.6 cm		
Work out the size of the angle		
between FC and the plane ABCD.		
•		
(Total for Question 22 is 2 marks)		
Question 8:		
P75148A02424		
24		
27		
BLANK PAGE		
Question 9:		
P75148A01824		

your answers if you have time at the end.

20 For x 0, the fu	nctions f and g are such that
f(x) = 3x + 4	g(x) = x+2
5	
(a) Find g1(x)	
g1(x) =	
(2)	
(b) Solve gf	
(x) = 3	
x =	
(3)	
(Total for Question 2	20 is 5 marks)
Question 10:	
P75148A0624	
6	
6 The scatter grap	h shows information about the ages and weights of some babies.
0 2 4 6 8 10 1212	
10	
86420	
Age (months)Weigh	nt
(kg)	
(a) Describe the rel	lationship between the age and the weight of the babies.

(1)
Another baby has a weight of 5.8 kg
(b) Using the scatter graph, find an estimate
for the age of this baby.
months
(2)
(Total for Question 6 is 3 marks)