Please check the examination d	etails below before	Other nam	
Pearson Edexcel Functional Skills	Centre Numb	oer	Candidate Number
Practice Set			
Time: 1 hour 30 minutes	Pape	r Reference I	PRACL2/C02
Mathematics Level 2 Section B (Calculator)		
You must have: Pen, calculator, HB pencil, eras protractor, pair of compasses.	_		d mm,

My signature confirms that I will not discuss the content of the test with anyone.

Signature:		
Jigiiatui E		

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.
- Sign the declaration.
- Answer all questions.
- Write your final answers in the boxes provided.
- Answer the questions in the spaces provided there may be more space than you need.
- You must show clearly how you get your answers in the spaces provided. Marks will be awarded for your working out.
- Check your working and answers at each stage.
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- Calculators may be used.
- If your calculator does not have a π button take the value of π to be 3.14

Information

- The total mark for this section is 48.
- The total mark for this paper is 64.
- The marks for each question are shown in brackets.
 use this as a quide as to how much time to spend on each question.
- This sign shows where marks will be awarded for showing your checks.

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

Turn over ▶



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SECTION B

Answer ALL questions. Write your answers in the spaces provided.

1 Luke plays a computer game where he manages a city. He buys two buildings.

Luke receives

- 135 coins every 8 hours from building A
- 36 coins every 15 minutes from building B.

Luke thinks he receives a total of 4000 coins in 24 hours from these buildings.

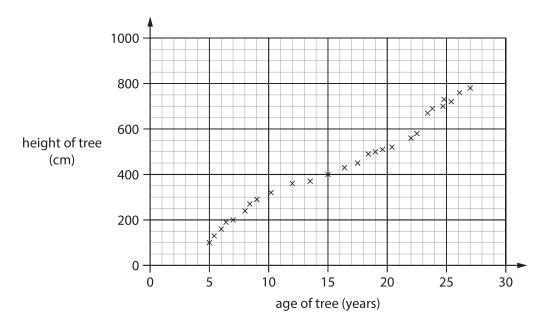
Is Luke correct?
Show why you think this.

(3)

(Total for Question 1 is 3 marks)

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2 The scatter diagram shows information about the age and height of some trees.



(a) Describe the relationship shown in the diagram.

(1)

(b) Draw a line of best fit on the diagram.

(1)

(c) Estimate the age of a tree with a height of 625 cm.

(1)

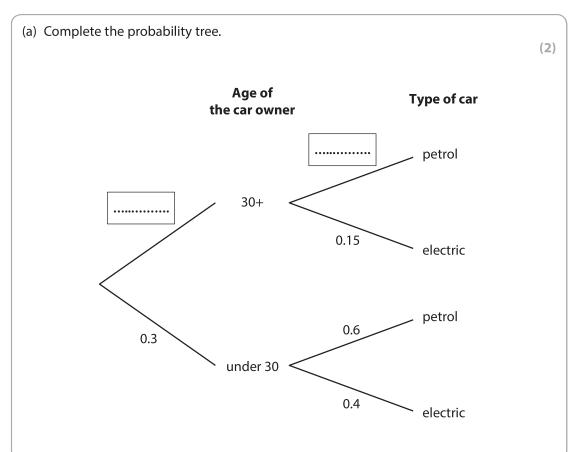
years

(Total for Question 2 is 3 marks)

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3 The tree diagram shows the probability of selecting a car owner by their age and the type of car they have.



A person is chosen at random.

(b) Work out the probability that this person is under 30 and has an electric car.

(2)

(Total for Question 3 is 4 marks)

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4 Sasha is the manager at a factory. Last weekend 15 employees assembled 390 identical wardrobes.

Sasha wants 1200 of these wardrobes to be assembled next weekend.

How many employees does Sasha need next weekend? You **must** show your working.

(3)

employees

(Total for Question 4 is 3 marks)

She has this information about the income in her shop for eight weeks this year.

Week	1	2	3	4	5	6	7	8
Income (thousands of £)	53.5	42.3	39.8	45.1	52.4	19.4	47.9	42.5

The median income for the same eight weeks last year was £49 300

Vera knows that the median income for these eight weeks has decreased this year compared to last year.

(a) Work out the percentage decrease of the median income.

Give your answer to 2 decimal places.

(4)

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arlos thinks the total of the money he invests and 1750 at the end of the 3 years.	the interest will be more than	DO NOT V
Is he correct? Show why you think this.	(3)	DO NOT WRITE IN THIS AREA
		DO NOT WRITE IN THIS AREA
	(Total for Question 6 is 3 marks)	DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(a) Write 21 00/ as a desired	
(a) Write 21.9% as a decimal.	(1)
(b) Work out 37% of 4618.57	
Give your answer to 1 decimal place.	(2)
(c) Write fifty-one million forty-nine thousand one hundred an	d twelve
in figures.	(1

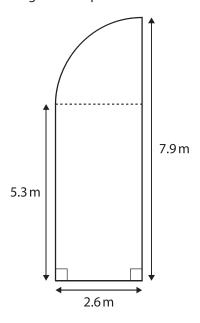


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8 Jessie needs to cover a wooden floor with varnish.

The floor is in the shape of a rectangle and a quarter circle.



A tin of varnish

- covers 6 m²
- costs £5.41

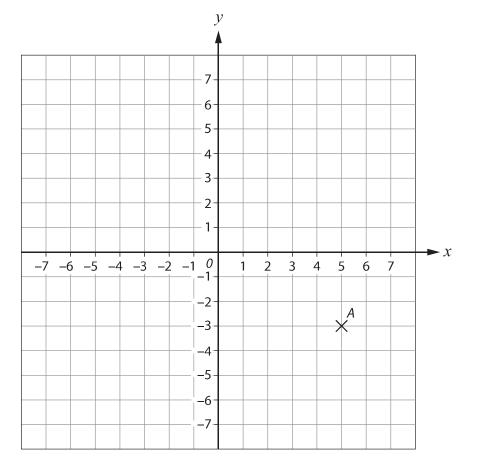
Jessie has £25 to buy the tins of varnish she needs to cover this wooden floor.

Is £25 enough to buy all the tins of varnish Jessie needs?

(6)







(a) Write down the coordinates of point A.

(1)

(,)

(b) Plot point *B* with coordinates (– 4, 6) on the grid. Remember to label your point.

(1)

(c) Plot a point *C* on the grid so that angle *ACB* is a right angle. Remember to label your point.

(1)

(Total for Question 9 is 3 marks)

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Kevin thinks that the car cost more than £9000 when brand new.

Is Kevin correct? Show why you think this.

(3)

(Total for Question 10 is 3 marks)

She has this information about the number of workers in each of the 20 offices of the company.

number of workers	number of offices
1 to 20	9
21 to 40	8
41 to 60	2
61 to 80	1

Emma estimates the mean number of workers in an office as 30

(a) Is Emma correct? Show why you think this.

(3)

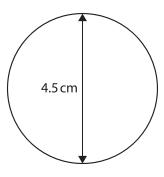
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o) Work out 49 as a percentage of 200		·
	((2)
		_
	%	,
	(Total for Question 11 is 5 marks)	

Claire has this scale diagram of the plan view of the bandstand.



scale 1:200

Claire knows that

- a set of lights is 4.75 m in length
- each set of lights costs £27.99
- (a) Work out the total cost for the sets of lights Claire needs.

(5)

£

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TOTAL FOR SECTION B IS 48 MARKS
TOTAL FOR PAPER IS 64 MARKS

(Total for Question 12 is 6 marks)



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