Please check the examination de	tails below	before ente	ering your car	ndidate information
Candidate surname			Other name	25
Pearson Edexcel Functional Skills	Centre	Number		Candidate Number
Practice Set 3	3			
Time: 1 hour 30 minutes		Paper R	eference F	PRACL2/C03
Mathematics Level 2 Section B (Calculator)				
You must have: Pen, calculator, HB pencil, erase protractor, pair of compasses. T	_			I mm,

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

Signature:_		

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 guide as to how much time to spend on each question.
- This sign $\sqrt{}$ 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 Susie wants to make a dress.

To make the dress she needs a piece of fabric with a length of $2\frac{3}{4}$ yards. Fabric is sold in lengths measured in cm.

1 inch = $2.54 \, \text{cm}$ 1 yard = $36 \, \text{inches}$

Work out the length of fabric, in cm, Susie needs to make the dress. You **must** show your working.

(3)

cm

(Total for Question 1 is 3 marks)



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2 Jamal owns a car paint repair business. He has 375 ml of thinner.

Jamal has plenty of colour and hardener He has to mix colour, hardener and thinner in the ratio 2:1:10 to make car paint.

Work out the maximum amount of car paint Jamal can make with 375 ml of thinner.

(3)

ml

(Total for Question 2 is 3 marks)



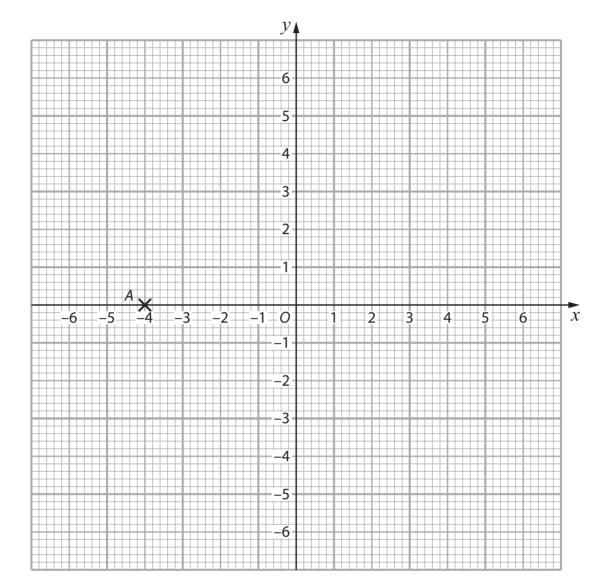
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3	Airon is a festival promoter.	
	He says	
	"In 2019 I sold 105 276 tickets. This is 7% less than the number of tickets I sold in 2018."	
	(a) How many tickets did Airon sell in 2018?	(3)
V	(b) Show a check of your answer.	(1)
	(Total for Question 3 is 4 ma	arks)

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4



(a) Write down the coordinates of point A.

(1)

(,)

B is the point (2, 0).

(b) On the grid draw a circle with diameter AB.

(2)

(Total for Question 4 is 3 marks)

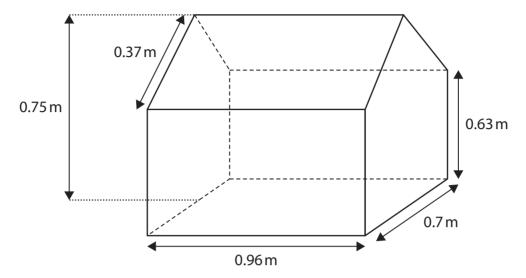


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5 Here is a diagram of a dolls house Jayden has made.



Two faces are each in the shape of a pentagon with a vertical line of symmetry. All other faces are rectangular.

The base angles of each pentagon are right angles.

Jayden wants to cover all the surfaces of the dolls house with paint. He knows the total area of the base and the roof is 1.3824 m²

Jayden has enough paint to cover 3.5 m²

Has Jayden got enough paint to cover all the surfaces of the dolls house? Show why you think this.

(5)



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(Total for Question 5 is 5 marks)	



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6 Here is a formula.

$$m = \frac{2.67a}{4y}$$

Find the value of m when a = 8 and y = 3.5 Give your answer correct to 3 decimal places.

(3)

(Total for Question 6 is 3 marks)



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7 Nikos owns a restaurant.

The table shows information about the number of customers that visited the restaurant on each of the 31 nights in August.

Number of customers	Frequency
1 – 15	2
16 – 30	7
31 – 45	12
46 – 60	10

The mean number of customers per night in July was 32

Nikos thinks the mean number of customers per night in August was more than the mean number of customers per night in July.

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

(3)



(b) Show a check of your mean calculation.

(1)

(Total for Question 7 is 4 marks)



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8 Benji sells items in a shop and online.

In a survey he asked 100 people if they

- prefer to buy items in a shop or online
- are aged under 25 years, 25 to 40 years or over 40 years.

56 of the 100 people prefer to buy online.

27 of the people aged under 25 years prefer to buy online.

12 of the 33 people aged 25 to 40 years prefer to buy in a shop.

Of the people aged over 40 years, 8 prefer to buy online and 17 prefer to buy in a shop.

One person who prefers to buy in a shop is chosen at random to win a prize.

(a) What is the probability that this person is aged under 25 years? You **must** show your working.

(4)



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esterday Benji made					
• 48 sales in the s	shop				
• 48 sales in the s	shop				
 48 sales in the s 76 sales online. 	shop the total number of s	sales made y	resterday we	re in	
 48 sales in the s 76 sales online. (b) What fraction of the shop?			resterday we	re in	
 48 sales in the s 76 sales online. (b) What fraction of the shop?	the total number of s		esterday we	re in	(2)
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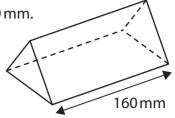
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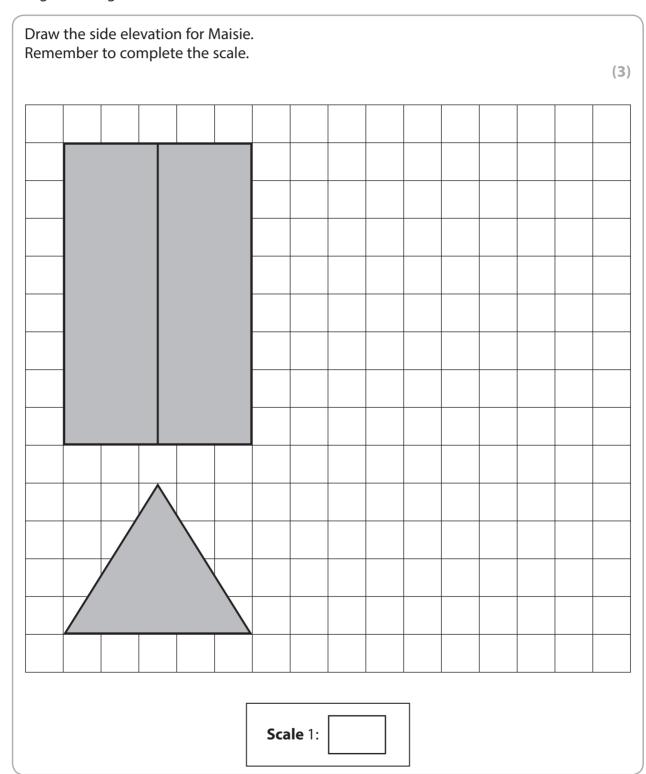
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9 Maisie is designing packaging for a perfume bottle. The packaging is in the shape of a triangular prism with length 160 mm.

Maisie has drawn the front elevation and the plan of the prism on the centimetre grid below.

Maisie needs to draw the side elevation to complete the design drawings.





(Total for Question 9 is 3 marks)



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10 Lucia is driving to a meeting. She needs to drive for 58 miles on the motorway.

The maximum speed limit on the motorway is 70 mph. Lucia will not drive over the speed limit.

Work out the minimum time Lucia will spend driving on the motorway. Give your answer correct to the nearest minute.

(3)

minutes

(Total for Question 10 is 3 marks)



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11 Matt and Gabrielle are planning their wedding.

There will be 150 people at the reception.

All of the tables at their reception

- seat a maximum of 8 people
- have a circular top of diameter 1.7 m

Matt and Gabrielle want to put ribbon around the top edge of each table.

They will allow for an extra 65 cm of ribbon per table for a bow.

Ribbon is sold in rolls.

Each roll of ribbon is 30 m in length.

How many rolls of ribbon do Matt and Gabrielle need to buy to decorate the minimum number of tables needed at their reception?

(5)

14





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12 Jana is writing a report about wages.

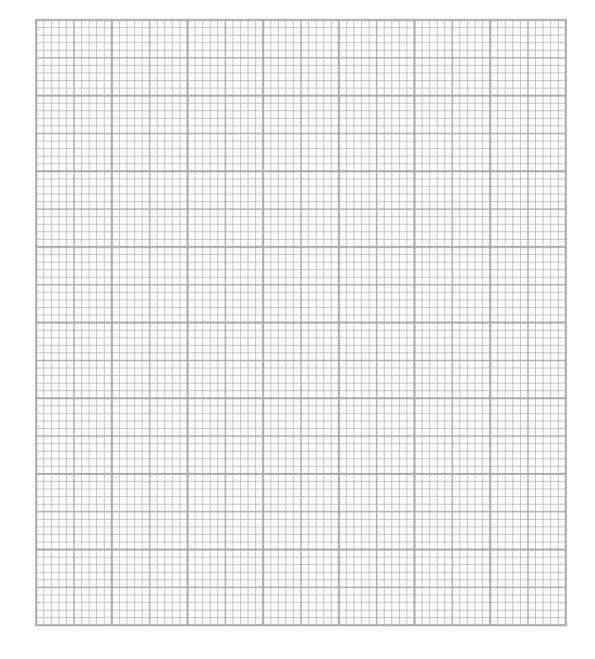
She has this information about the ages and weekly pay of eight men.

Age (years)	27	41	32	19	46	37	24	53
Weekly pay (£)	470	686	514	295	612	578	338	615

Jana wants to draw a diagram to see if there is a relationship between age and weekly pay for these eight men.

(a) Draw a suitable diagram for Jana.

(3)





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b) What type of correlation describes the relationship between age and weekly pay for these men?	
	(1)
na wants to compare the variation in weekly pay of men with the variation in ekly pay of women.	
e finds the range of weekly pay for a sample of eight women is £437	
(c) Write a comment comparing the variation in weekly pay for men and for women. Support your comment with a calculation.	(2)
	(2)
(Total for Question 12 is 6 mark	cs)
TOTAL FOR SECTION B IS 48 MARI	
TOTAL FOR PAPER IS 64 MARI	



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