Write your name here				
sumame log just maths, co.uk	Other names			
Pearson Edexcel Level 1/Level 2 GCSE (9-1)	Candidate Number			
Mathematics Worked Solutions				
Paper 3 (Calculator) (there may be other methods to those shawn!)				
Achieving a Grade 1	Foundation Tier			
Spring 2023 Practice Paper 31 marks 30 minutes	Paper Reference 1MA1/3F			
You must have: Ruler graduated in centimetres protractor, pair of compasses, pen, HB pencil, en 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 be used.
- If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.

# Information

- The total mark for this paper is 30. There are 23 questions.
- Questions have been arranged in an ascending order of mean difficulty, as found by students achieving Grade 1 in the Summer and November 2022 examinations.
- 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.



## Answer ALL TWENTY THREE questions.

## Write your answers in the spaces provided.

#### You must write down all the stages in your working.

1 Here are the first five terms of a number sequence.

> 3 8 13 18 +5 +5 +5 +5 23

Write down the next two terms of this sequence.

#### 2 Four students play a game.

The table shows the number of points each student has.

19

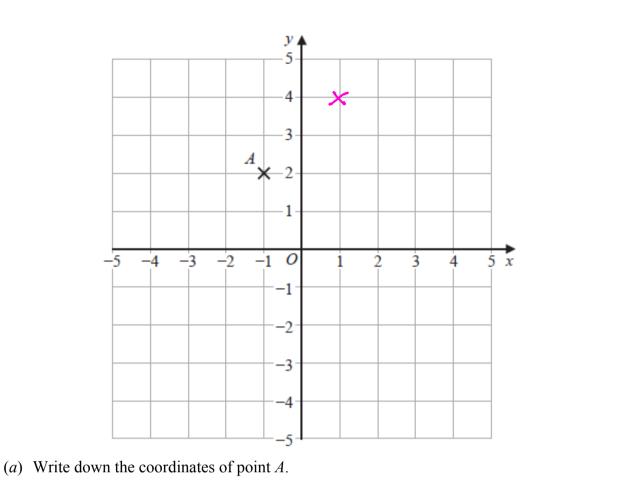
Student	Ali	Barbara	Calliope	Danesh
Number of points	143	121	45	<u>    19    </u>

3

**121** Barbara has more points than Danesh. How many more?

121 - 19 = 102

							162
							(Total for Question 2 is 1 mark)
Here is a list of r	numbo	ers.					
	5		11		18	22	29
From the list, wr	ite do	own a 1	multipl	e of 3			
3	Ь	9	12	15	18 V	21	
×	×	×	×	×	~	*	
							18
							(Total for Question 3 is 1 mark)



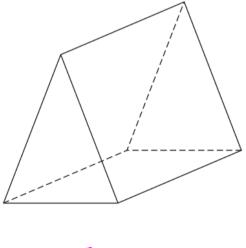


(b) On the grid, mark with a cross (×) the point (1, 4) Label this point *B*.

(1) (Total for Question 4 is 2 marks)

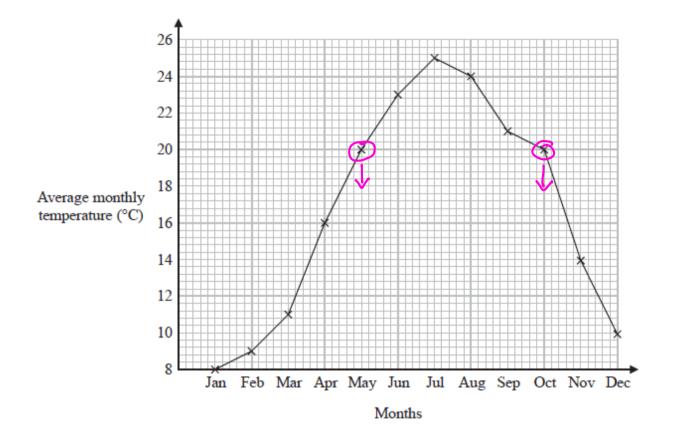
5 The diagram shows a solid triangular prism.

Write down the number of faces of the prism.

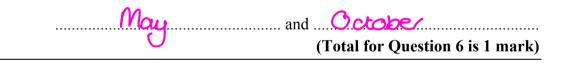




6 The graph shows information about the average monthly temperature, in °C, in Amman.



Write down the two months that had the same average monthly temperature.

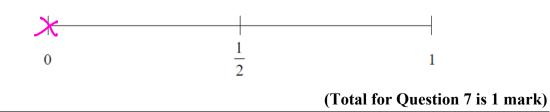


7 Here is a list of 8 numbers.

2 2 3 5 6 6 8 9

Kim picks at random one of these numbers.

On the probability scale below, mark with a cross ( $\times$ ) the probability that Kim picks the number 7 (there are no 7's)



8	Write down two factors of 12 any two from 1,12 2,6 3,4 4	forexample 1 12
9	Find $\sqrt{1.69}$ Use you calarater	(Total for Question is 1 mark) いる
		(Total for Question 9 is 1 mark)
10	Write down the value of the 2 in the nu	umber 12 345

2000 ..... (Total for Question 10 is 1 mark)

11 The table shows the total number of apples sold and the total number of oranges sold in a shop in each of three weeks.

	Week 1	Week 2	Week 3
Number of apples	86	75	92
Number of oranges	68	80	76

In total for the three weeks, more apples than oranges were sold.

How many more?

 apples = 86 + 75 + 92 = 253 

 Oranges = 68 + 80 + 76 = 224 

 Difference = 253 - 224 

 (Total for Question 11 is 3 marks) 

12

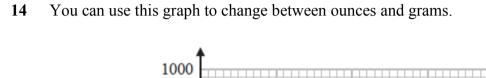
Work out

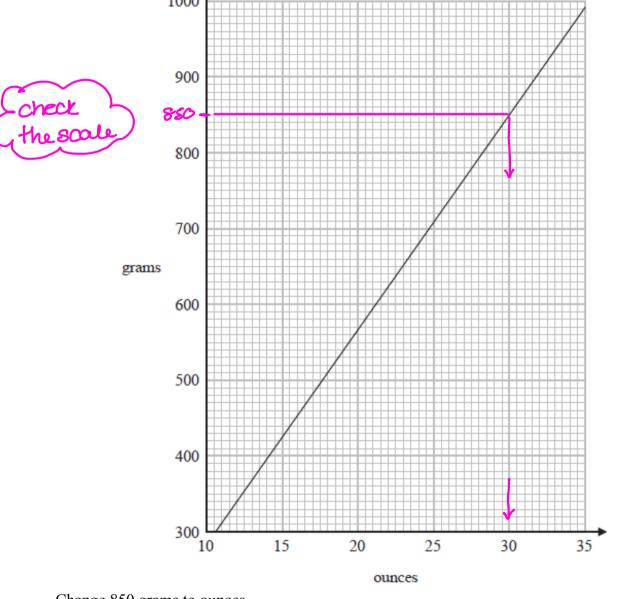
$$\frac{(3.2+3.7)\times4.9}{5.3-2.8}$$

Give your answer as a decimal.

**13.524** (Total for Question 12 is 2 marks)

(Total for Question 13 is 1 mark)

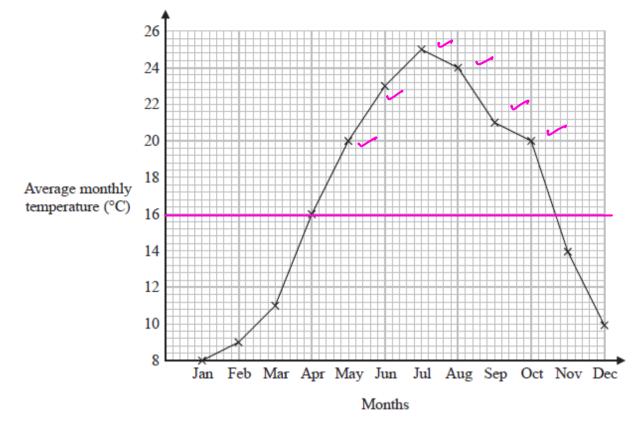




Change 850 grams to ounces.



15 The graph shows information about the average monthly temperature, in °C, in Amman.



For how many months was the average monthly temperature greater than 16°C?

..... (Total for Question 15 is 1 mark)

16 Sinita wants to make 35 picture frames. She needs 4 nails for each frame.

> Sinita has 3 boxes of nails. There are 48 nails in each box.

Has Sinita got enough nails to make all 35 frames? Show how you get your answer.

Needs: 35 × 4 = 140 Has: 48 × 3 = 144 Sirita has enough 144 > 140

(Total for Question 16 is 3 marks)

17 Write 
$$\frac{4}{5}$$
 as a decimal.

**O** · **8** (Total for Question 17 is 1 mark)

**18** Write 35% as a fraction.

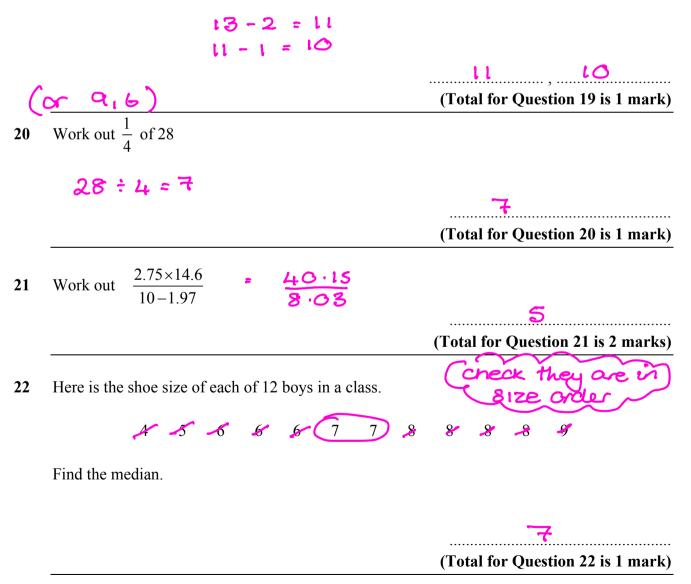
(or equivalent)

(Total for Question 18 is 1 mark)

**19** Here are the first three terms of a sequence.

20 - 4 - 3 - 2 - 11 - 1

Write down two numbers that could be the 4th and 5th terms of this sequence.



23 Four students play a game.

The table shows the number of points each student has.

Student	Ali	Barbara	Calliope	Danesh
Number of points	143	121	45	19

Work out the mean number of points.

Total = 143 + 121 + 45 + 19 = 328 Mean = 328 ÷ 4 = 82 <u>82</u>

(Total for Question 23 is 2 marks)

**TOTAL FOR PAPER IS 31 MARKS**