

Please write clearly in	n block capitals.	
Centre number	Candidate number	
Surname		
Forename(s)		
Candidate signature		
	I declare this is my own work.	

Functional Skills Level 2 MATHEMATICS

Paper 1 Non-Calculator

Monday 13 January 2020

Morning

Time allowed: 30 minutes

Materials

For this paper you must have:

• mathematical instruments.

You must **not** use a calculator.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.
- State the units of your answer where appropriate.

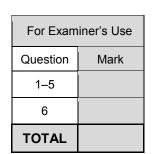
Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 20.
- You may ask for more answer paper, graph paper and tracing paper.
 These must be tagged securely to this answer book.

Advice

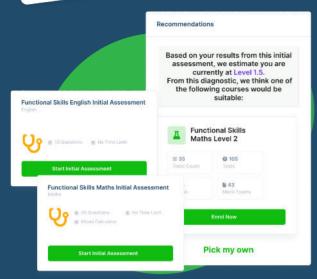
In all calculations, show clearly how you work out your answer.







FUNCTIONAL SKILLS ONLINE COURSES



- Your answers are analysed to determine your Current Level
- Suggested courses for you to enrol on based on your calculated level
- Always know the level you are currently working at
- Determine when you are ready to sit your exam
- Explainer videos on every topic
- Quick-fire style mutiple choice questions
- Test your knowledge with exam-style questions
- Written solutions for all questions





- See your progress through as you progress through each topic area
- Get your average scores for practice questions, topic tests and mock exams
- View all practice question, topic test and mock exam attempts over time
- ✓ View historical attempts to analyse your progress over time

Section A

Answer all questions in the spaces provided.

1 Here are nine numbers.

X 2 2 X 6 X X X X

Work out the median.

Circle your answer.

[1 mark]

5



7

8

2 Put the following numbers in order, starting with the **smallest**.

> 5 **-9 -2** 7 -6 1

[2 marks]

Answer -9, -6, -2, 1, 5, 7

Circle the value of $4y^2$ when y = -33

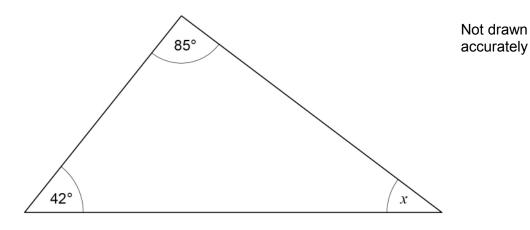
$$(-3)^2 = 9$$
 $9 \times 4 = 36$
 (36)
144

-144

-36

[2 marks]

4 Work out the size of angle x.



Answer 53 °

5 Work out $61-4\times2^3$

[2 marks]

$$2^3 = 2 \times 2 \times 2 = 8$$

4x8=32

61-32 = 29

Answer 29

8

Turn over ▶



Section B

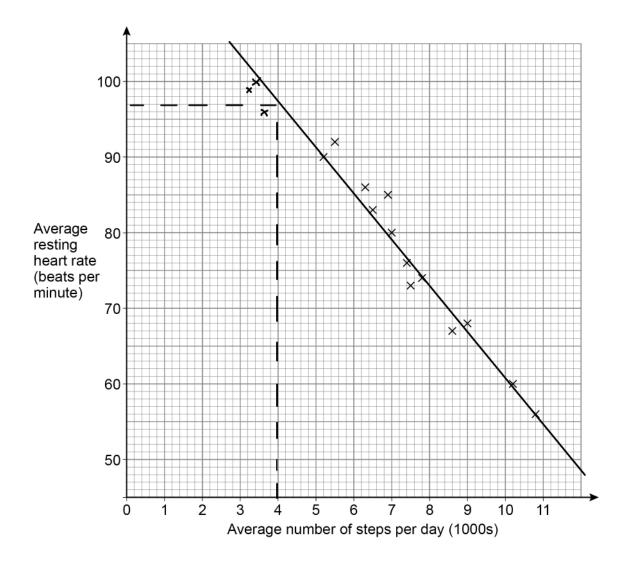
Answer all questions in the spaces provided.

6 Fitness

Laura has a company with 16 employees.

Each employee has a device that records

- how many steps they take each day
- their resting heart rate.
- **6 (a)** The scatter diagram represents the data for 13 of the employees.





The table shows the extra data for the other 3 employees.

Average number of steps per day	Average resting heart rate (beats per minute)
3600	96
3400	100
3100	99

Laura takes an average of 4000 steps per day.

Use the scatter diagram with the extra data to estimate Laura's average resting heart rate.

Give the units of your answer.

You **must** show your working, which should be on the diagram.

[5 marks]

Answer 97 beats per minute

Question 6 continues on the next page

Turn over ►

6 (b) In total, the 16 employees had 70 days of sick leave last year.

Each day of sick leave costs the company £130

Laura thinks that increasing the wellbeing of the employees may reduce the number of days of sick leave.

She pays for gym membership for the 16 employees.

The cost for each employee is £15 per month.

Laura says,

"If the number of days of sick leave is reduced by 40% we will save over £750 per **year** after paying for the gym membership."

Is she correct?

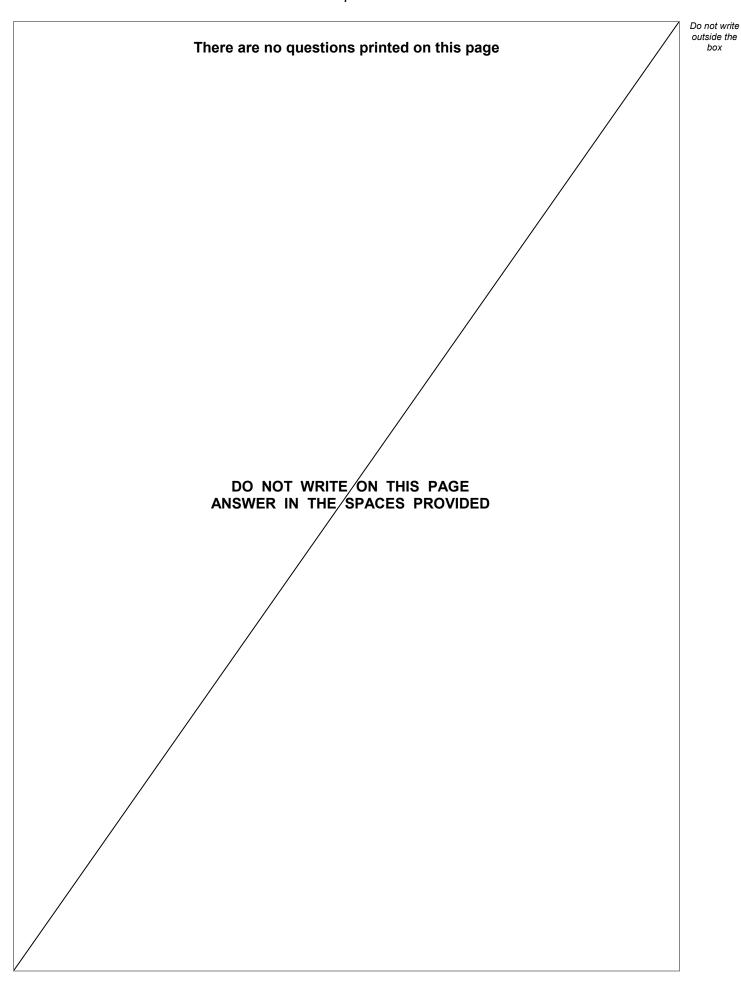
You **must** show your working.

[7 marks]

= 7000 + 2100 =9100

END OF QUESTIONS

12





Question number	Additional page, if required. Write the question numbers in the left-hand margin.



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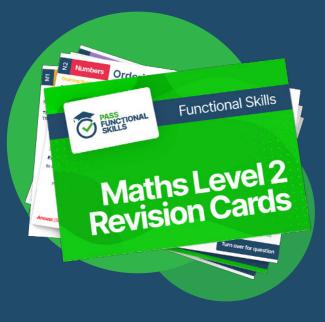
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