Please write clearly in block capitals.

Centre number

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

Candidate number

|  |  |  |  |
| :--- | :--- | :--- | :--- |

Surname
Forename(s) $\qquad$
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

| For Examiner's Use |  |
| :---: | :---: |
| Question | Mark |
| $1-5$ |  |
| 6 |  |
| TOTAL |  | 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


(v) Explainer videos on every topic
(v) Quick-fire style mutiple choice questions
© Test your knowledge with exam-style questions
(v) Written solutions for all questions

- 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
v Determine when you are ready to sit your exam


© See your progress through as you progress through each topic area
(v) Get your average scores for practice questions, topic tests and mock exams
(V) 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.


Work out the median.
Circle your answer. $\longrightarrow$ middle no.
[1 mark]
5
6
7
8

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

$$
\begin{array}{llllll}
5 & -9 & -2 & 7 & -6 & 1
\end{array}
$$

$\qquad$
$\qquad$
$\qquad$

$$
\text { Answer }-9,-6,-2,1,5,7
$$

$3 \quad$ Circle the value of $4 y^{2}$ when $\quad y=-3$

$$
\begin{aligned}
& (-3)^{2}=9 \\
& 9 \times 4=36 \quad[1 \mathrm{mark}] \\
& 36 \quad 144
\end{aligned}
$$



Answer $\qquad$。

5

$$
\text { Work out } \quad 61-4 \times 2^{3}
$$

$\qquad$
$2^{3}=2 \times 2 \times 2=8$ $4 \times 8=32$
$61-32=29$

Answer

$$
29
$$

$\qquad$

| 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 <br> of steps per day | Average resting heart rate <br> (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.


Question 6 continues on the next page

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.

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
There are no questions printed on this page
DO NOT WRITE ON THIS PAGE ANSWER IN THE/SPACES PROVIDED


| Question number | Additional page, if required. Write the question numbers in the left-hand margin. |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  | $\qquad$ |
|  | $\qquad$ |
|  | $\qquad$ |
|  | $\qquad$ |
|  | $\qquad$ |
|  | $\qquad$ |
|  | $\qquad$ |
|  | $\qquad$ |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |





For confidentiality purposes, all acknowledgements of third-party copyright material are published in a separate booklet. This booklet is published after each live examination series and is available for free download from www.aqa.org.uk.

Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders may have been unsuccessful and AQA will be happy to rectify any omissions of acknowledgements. If you have any queries please contact the Copyright Team.

Copyright © 2020 AQA and its licensors. All rights reserved.


Functional Skills Maths Level 2 Practice Papers


Functional Skills Maths
Level 2 Revision Cards


Functional Skills English Level 2 Practice Papers \& Revision Cards


Functional Skills Maths
Level 2 Pocket Revision Guide

