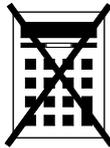# AQA

Functional Skills Level 2
MATHEMATICS

Paper 1 Non-Calculator

Time allowed: 30 minutes

Materials

For this paper you must have:
- mathematical instruments.

You must **not** use a calculator.

For Examiner's Use	
Question	Mark
1–5	
6	
TOTAL	

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.

Section A

Answer **all** questions in the spaces provided.

1 Circle the **largest** number.

[1 mark]

0.756   0.76   0.7   0.7516

2 Work out $22 - (7 - 5)^3$

[2 marks]

_____

_____

_____

_____

Answer _____

3 Work out $\dfrac{5}{6} + \dfrac{1}{3}$

[2 marks]

_____

_____

_____

_____

Answer _____

4 Work out $1.302 \div 6$

[2 marks]

_____

_____

_____

_____

Answer _____

5 Write in digits   twenty seven million, forty three thousand and sixty

[1 mark]

_____

_____

Answer _____

8

Turn over ►

Section B

Answer **all** questions in the spaces provided.

6 **Call centre**

Troy works in a call centre.

6 (a) On Monday, Troy receives 15 phone calls.

The table shows information about the length of the phone calls.

Time, t (minutes)	Frequency	Midpoint	
$0 \leqslant t < 10$	4	5	
$10 \leqslant t < 20$	3	15	
$20 \leqslant t < 30$	6	25	
$30 \leqslant t < 40$	2	35	
	Total = 15		

Troy has a target to keep the average length of his phone calls to 20 minutes or less.
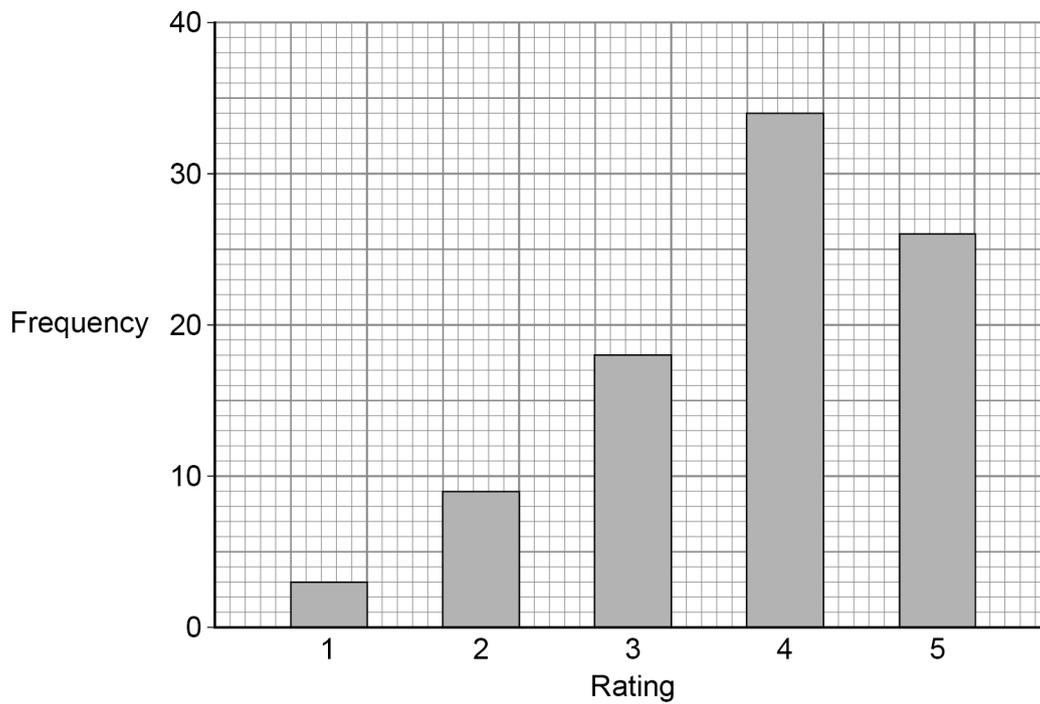
Does the estimated mean time of these phone calls meet his target?

You **must** show your working.

[4 marks]

6 (b) Customers are asked to rate their experience of the call centre from 1 to 5

The chart shows some ratings.

A rating of 1 or 2 is 'Poor'.

Work out the fraction of these ratings that were 'Poor'.

Give your answer in its simplest form.

[4 marks]

Answer _____

Question 6 continues on the next page

Turn over ▶

6 (c) One year, Troy is paid a salary of £20 370

That year, he pays Income Tax on this salary at the rate below.

Taxable income	Rate
Up to £12 570	0%
above £12 570	20%

Troy also pays £1296.24 in National Insurance.

Work out the **total** amount of Income Tax and National Insurance Troy pays that year.

[4 marks]

Answer £ _____

12

END OF QUESTIONS

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.**

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

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

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

There are no questions printed on this page

DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED

Do not write outside the box