Edexcel GCSE
Mathematics (Linear) – 1MA0

PICTOGRAMS

Materials required for examination	**Items included with question papers**
Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser. Tracing paper may be used.	Nil
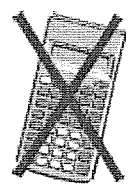
ANSWERS

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.
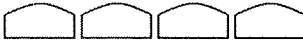Calculators may be used.

Information

The marks for each question are shown in brackets – use this as a guide as to how much time to spend on **each** question.
Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed – you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

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.

1. The pictogram shows the numbers of loaves of bread made by Miss Smith, Mr Jones and
    Mrs Gray.

Miss Smith	⌂ ⌂ ⌂ ⌂
Mr Jones	⌂ ⌂
Mrs Gray	⌂ ⌂ ▢
Ms Shah	⌂ ⌂ ⌂
Mr Khan	⌂ ⌂ ⌂ ⌂ ▢

⌂ represents 20 loaves of bread

(a) Write down the number of loaves of bread made by Mr Jones.

..........40..........

(1)

(b) Write down the number of loaves of bread made by Mrs Gray.

..........50..........

(1)
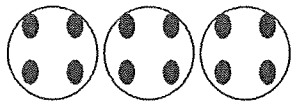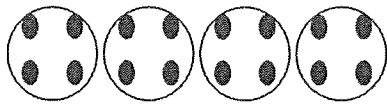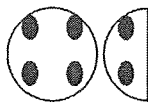
Ms Shah made 60 loaves of bread.
Mr Khan made 90 loaves of bread.

(c) Use this information to complete the pictogram.

(2)
(Total 4 marks)

2. The pictogram gives information about the number of goals scored in a local football league in each of 3 weeks.

First week	
Second week	
Third week	
Fourth week	
Fifth week	

Key: represents 4 goals

(a) Find the number of goals scored in the first week.

4 + 4 + 4

..........12..........

(1)

(b) Find the number of goals scored in the third week.

4 + 2

..........6..........

(1)

8 goals were scored in the fourth week.
5 goals were scored in the fifth week.

(c) Complete the pictogram.

(2)
(Total 4 marks)

3. The pictogram shows the number of plates sold by a shop on Monday, Tuesday, Wednesday and Thursday of one week.

Monday	◯ ◯
Tuesday	◯ ◖
Wednesday	◯ ◯ ◯
Thursday	◯
Friday	◯ ◯ ◯ ◯
Saturday	◯ ◯ ◖

Key: ◯ represents 10 plates

(a) Work out the number of plates sold on Monday.

10 + 10

.... 20 ....

(1)

(b) Work out the number of plates sold on Tuesday.

10 + 5

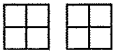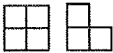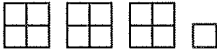.................... 15 ....

(1)

The shop sold 40 plates on Friday.
The shop sold 25 plates on Saturday.

(c) Use this information to complete the pictogram.

(2)
(Total 4 marks)

4. The pictogram shows the number of books sold on Wednesday, Thursday and Friday.

Wednesday	⊞ ⊞
Thursday	⊞ ⌐
Friday	⊞ ⊞ ⊞ ☐
Saturday	⊞ ⊞ ⊟

Key: ⊞
represents 8
books

(a) Write down the number of books sold on Wednesday.

$8 + 8$
.... 16 ....

(1)

(b) Write down the number of books sold on Friday.

$8 + 8 + 8 + 2$
.... 26 ....

(1)

20 books were sold on Saturday.

(c) Use this information to complete the pictogram.

(1)
(Total 3 marks)

5. The pictogram shows the numbers of hours of sunshine on Monday, Tuesday and Wednesday one week.

Monday	◐ ◐ ◐ ◐
Tuesday	◐ ◐ ◐ ◐ ◐
Wednesday	◐ ◐ ◑
Thursday	◐ ◐
Friday	◐ ◐ ◐ ◑

Key: ◐ represents 2 hours

(a) Write down the number of hours of sunshine on

   (i) Monday,   2+2+2+2   .....8..... hours

   (ii) Wednesday.   2+2+1   .....5..... hours

(2)

On Thursday there were 4 hours of sunshine.

(b) Show this on the pictogram.

(1)

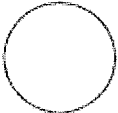On Friday there were 7 hours of sunshine.

(c) Show this on the pictogram.

(1)
(Total 4 marks)

6. The pictogram shows the numbers of zips sold in a shop on Monday, on Tuesday and on Wednesday.

Monday	◯ ◯
Tuesday	◯ ◯ ◯ ◖
Wednesday	◯ ◯ ◔
Thursday	◯ ◯ ◻

Key: ◯ represents 4 zips

(a) Write down the number of zips sold on Monday.

4 + 4

.... 8 ....

(1)

(b) Write down the number of zips sold on Wednesday.

4 + 4 + 3

.... 11 ....

(1)

9 zips were sold on Thursday.

(c) Complete the pictogram.

(1)

(3 marks)

7. The tally chart shows information about the numbers of text messages sent by some students last week.

Name of student	Tally	Frequency
Anna	ⅢⅡ ⅢⅡ ⅢⅡ ⅢⅡ ⅢⅠ	24
Bhavini	ⅢⅠ ⅢⅠ Ⅱ	12
Cassie	ⅢⅠ ⅢⅠ ⅢⅠ	15
David	ⅢⅠ ⅢⅠ	9

(i) Complete the frequency column.

The pictogram shows the numbers of text messages sent by Anna and Cassie.

Anna	□ □ □ □ □ □
Bhavini	□ □ □
Cassie	□ □ □ ⌐
David	□ □ ▫

Key: □ = 4 texts

(ii) Complete the pictogram and the key.

(Total 5 marks)