Entry Level Certificate in Mathematics

Sample Assessment Materials

Pearson Edexcel Entry Level Certificate in Mathematics (NMA0)

First certification from June 2018

Issue 1
Edexcel, BTEC and LCCI qualifications

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Original origami artwork: Mark Bolitho
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Introduction

The Pearson Edexcel Entry Level Certificate in Mathematics is part of a suite of Entry Level Certificate qualifications offered by Pearson.

These sample assessment materials have been developed to support this qualification and will be used as the benchmark to develop the assessment students will take.

This document contains the following:

**Entry Level 1**
- Component 1 – Test and mark scheme
- Component 2 – Task and mark scheme

**Entry Level 2**
- Component 1 – Test and mark scheme
- Component 2 – Task and mark scheme

**Entry Level 3**
- Component 1 – Non-calculator test and mark scheme
- Component 2 – Calculator test and mark scheme
- Component 3 – Task and mark scheme
**General marking guidance**

- All students must receive the same treatment. Teachers must mark the last student in exactly the same way as you marked the first.
- Mark schemes should be applied positively. Students must be rewarded for what they have shown they can do rather than be penalised for omissions.
- Teachers should mark according to the mark scheme.
- All the marks on the mark scheme are designed to be awarded. Teachers should always award full marks if deserved, i.e. if the answer matches the mark scheme. Teachers should also be prepared to award zero marks if the student’s response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification/indicative content will not be exhaustive.
- Crossed-out work should be marked **unless** the student has replaced it with an alternative response.
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 must not be used.
- You will need counters for Question 12.

Information

- The total mark for this paper is **12**.
- 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.
- Check your answers if you have time at the end.
Answer ALL questions.

Write your answers in the spaces provided.

1. How many trees?

![Trees diagram](Image)

(Total for Question 1 is 1 mark)

2. Write the number 7 as a word.

(Total for Question 2 is 1 mark)

3. Count the number of sides.

(Total for Question 3 is 1 mark)
4. Tick [✓] the tallest person.

[ ] [ ] [ ] [ ]

(Total for Question 4 is 1 mark)

5. What comes next?

Draw it.

△ □ △ □ △ □

(Total for Question 5 is 1 mark)

6. Use a ruler to measure the length of this line.

________________________

________ cm

(Total for Question 6 is 1 mark)
7  Tick [✓] the circle.

![Circle, Triangle, Star]

(Total for Question 7 is 1 mark)

8  Write these numbers in order.
   Start with the smallest.

8  6  4  5

   .................................................  .................................................  .................................................  .................................................

   smallest .................................  ...................  ...................  largest

(Total for Question 8 is 1 mark)
9 Draw a \( \bigtriangleup \) inside the rectangle.

(Total for Question 9 is 1 mark)

10 Shade half of the shape.

(Total for Question 10 is 1 mark)

11 There are 9 women and 7 men in a room.

There are more women than men.

How many more?

(Total for Question 11 is 1 mark)

Ask your teacher for some counters.

12 Use the counters to work out:

\[ 8 - 3 \]

(Total for Question 12 is 1 mark)

TOTAL FOR PAPER IS 12 MARKS
Entry Level 1
Component 1
– Test mark scheme

Question number Answer Mark
1 6 (1)
2 Seven (1)
3 5 (1)
4 Third figure ticked. (1)
5 (1)
6 5 Accept answers in the range 4.7 to 5.3 (1)

Additional guidance
## Entry Level 1

### Component 1 – Test mark scheme

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6</td>
<td>(1)</td>
</tr>
<tr>
<td>2</td>
<td>Seven</td>
<td>(1)</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>(1)</td>
</tr>
<tr>
<td>4</td>
<td>Third figure ticked.</td>
<td>(1)</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>(1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Additional guidance</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>5</td>
<td>Accept answers in the range 4.7 to 5.3</td>
<td>(1)</td>
</tr>
<tr>
<td>Question number</td>
<td>Answer</td>
<td>Additional guidance</td>
<td>Mark</td>
</tr>
<tr>
<td>-----------------</td>
<td>--------</td>
<td>---------------------</td>
<td>------</td>
</tr>
<tr>
<td>7</td>
<td>Circle ticked</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>8</td>
<td>4 5 6 8</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>Accept attempt at triangle within rectangle given.</td>
<td>(1)</td>
</tr>
<tr>
<td>10</td>
<td>Any four blocks shaded.</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>11</td>
<td>2</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>12</td>
<td>5</td>
<td></td>
<td>(1)</td>
</tr>
</tbody>
</table>
Question number 7
Circle ticked (1)

Question number 8
4 5 6 8 (1)

Question number 9
Additional guidance
Accept attempt at triangle within rectangle given.
(1)

Question number 10
Any four blocks shaded.
(1)

Question number 11
2 (1)

Question number 12
5 (1)
Task – Pencils and Pens

Part 1

1 Helen has these 1p and 2p coins.

Helen can make 3p in only two different ways using 1p and 2p coins.
Here are the ways.
1p, 1p, 1p        1p, 2p

Helen is going to buy a pencil.
The pencil costs 6p.

How many different ways can Helen use 1p and 2p coins to make 6p?
Show all the ways.

(4)
2 Helen has these 1p and 2p coins.

Helen can make 3p in only two different ways using 1p and 2p coins.

Here are the ways.

1p, 1p, 1p        1p, 2p

Helen is going to buy a pencil.
The pencil costs 6p.

How many different ways can Helen use 1p and 2p coins to make 6p?

Show all the ways.

(4)

---

Luke has these 1p, 2p and 5p coins.

Luke is going to buy a pen.
The pen costs 8p.

How many different ways can Luke use 1p, 2p and 5p coins to make 8p?

Show all the ways.

(4)

(Total for Part 1 is 8 marks)

TOTAL FOR TASK IS 8 MARKS
Question number

Answer

Additional guidance

Mark

1

4

ways with all correct ways of making 6p seen
(1)

Shows all 4 possible ways of making 6p
(3)

OR

Shows 2 or 3 ways of making 6p
(2)

OR

Shows 1 way of making 6p
(1)

1+1+1+1+1+1
or 6
× 1p

2+1+1+1+1
or 2p
+ 4
× 1p

2+2+1+1
or 2
× 2p
+ 2
× 1p

2+2+2
or 3
× 2p

Ignore repeats for 3, 2 or 1 mark.

Ignore extra incorrect attempts for 2 marks or 1 mark.

Accept other correct representations, including drawings of the correct combinations of coins.

2

7

ways with all correct ways of making 8p seen
(1)

Shows 6 or 7 possible ways of making 8p
(3)

OR

Shows 3, 4 or 5 ways of making 8p
(2)

OR

Shows 1 or 2 ways of making 8p
(1)

1+1+1+1+1+1+1+1
or 8
× 1p

2+1+1+1+1+1+1
or 2p
+ 6
× 1p

2+2+1+1+1+1
or 2
× 2p
+ 4
× 1p

2+2+2+1+1
or 3
× 2p
+ 2
× 1p

2+2+2+2
or 4
× 2p

5+2+1
5+1+1+1
or 5p
+ 3
× 1p

Ignore repeats for 3, 2 or 1 mark.

Ignore extra incorrect attempts for 2 marks or 1 mark.

Accept other correct representations, including drawings of the correct combinations of coins.
## Entry Level 1

### Component 2 – Task mark scheme

#### Part 1

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Additional guidance</th>
<th>Mark</th>
</tr>
</thead>
</table>
| 1               | 4 ways with all correct ways of making 6p seen (1)  
                 | Shows all 4 possible ways of making 6p (3) OR  
                 | Shows 2 or 3 ways of making 6p (2) OR  
                 | Shows 1 way of making 6p (1)  
                 | 1+1+1+1+1+1 or 6 × 1p  
                 | 2+1+1+1+1 or 2p + 4 × 1p  
                 | 2+2+1+1 or 2 × 2p + 2 × 1p  
                 | 2+2+2 or 3 × 2p | Ignore repeats for 3, 2 or 1 marks.  
                 | Ignore extra incorrect attempts for 2 marks or 1 mark.  
                 | Accept other correct representations, including drawings of the correct combinations of coins. | (4) |

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Additional guidance</th>
<th>Mark</th>
</tr>
</thead>
</table>
| 2               | 7 ways with all correct ways of making 8p seen (1)  
                 | Shows 6 or 7 possible ways of making 8p (3) OR  
                 | Shows 3, 4 or 5 ways of making 8p (2) OR  
                 | Shows 1 or 2 ways of making 8p (1)  
                 | 1+1+1+1+1+1+1+1 or 8 × 1p  
                 | 2+1+1+1+1+1+1 or 2p + 6 × 1p  
                 | 2+2+1+1+1+1 or 2 × 2p + 4 × 1p  
                 | 2+2+2+1+1 or 3 × 2p + 2 × 1p  
                 | 2+2+2+2 or 4 × 2p  
                 | 5+2+1  
                 | 5+1+1+1 or 5p + 3 × 1p | Ignore repeats for 3, 2 or 1 marks.  
                 | Ignore extra incorrect attempts for 2 marks or 1 mark.  
                 | Accept other correct representations, including drawings of the correct combinations of coins. | (4) |
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 must not be used.

Information

- The total mark for this paper is 18.
- 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.
- Check your answers if you have time at the end.
Answer ALL questions.
Write your answers in the spaces provided.

1. Circle the **three** odd numbers.
   
<table>
<thead>
<tr>
<th>28</th>
<th>35</th>
<th>46</th>
<th>59</th>
<th>87</th>
</tr>
</thead>
</table>
   
   (Total for Question 1 is 1 mark)

2. Write these numbers in order, smallest first.
   
<table>
<thead>
<tr>
<th>36</th>
<th>74</th>
<th>17</th>
<th>61</th>
<th>47</th>
</tr>
</thead>
<tbody>
<tr>
<td>smallest</td>
<td></td>
<td></td>
<td></td>
<td>largest</td>
</tr>
</tbody>
</table>

   (Total for Question 2 is 1 mark)

3. Write the next number.
   
<table>
<thead>
<tr>
<th>6</th>
<th>10</th>
<th>14</th>
<th>18</th>
<th>...................</th>
</tr>
</thead>
</table>

   (Total for Question 3 is 1 mark)

4. Shade $\frac{1}{4}$ of this shape.

   ![Shape](image)

   (Total for Question 4 is 1 mark)
5  I think of a number.
    I then add 3
    The answer is 9
    What is my number?
    ...............................  (Total for Question 5 is 1 mark)

6  The tally chart shows the colours of cars in a car park.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Tally</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td></td>
</tr>
<tr>
<td>Blue</td>
<td>++++</td>
</tr>
<tr>
<td>Black</td>
<td>++++</td>
</tr>
<tr>
<td>White</td>
<td></td>
</tr>
</tbody>
</table>

How many cars are blue?
    ...............................  (Total for Question 6 is 1 mark)

7  Work out
    34 + 17
    ...............................  (Total for Question 7 is 1 mark)

8  Continue this pattern
    5  2  4  5  2  4  5  2  ...............................  (Total for Question 8 is 1 mark)
9 Jaz earns £9 an hour.
   How much does he earn in 3 hours?
   £ ................................
   (Total for Question 9 is 1 mark)

10 Jane buys three pens costing
   33p  41p  15p
   Work out the total cost.
   ................................ p
   (Total for Question 10 is 1 mark)

11 Count the number of triangles.
   .............................................
   (Total for Question 11 is 1 mark)

12 Draw a line \( 7\frac{1}{2} \) cm long.

   (Total for Question 12 is 1 mark)
13 Here is a cube.

How many vertices?

(Total for Question 13 is 1 mark)

14 This pictogram shows information about the colours of some footballs.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Number of Footballs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>⃝ ⃝ ⃝ ⃝ ⃝ ⃝ ⃝ ⃝ ⃝</td>
</tr>
<tr>
<td>White</td>
<td>⃝ ⃝ ⃝ ⃝ ⃝ ⃝ ⃝</td>
</tr>
<tr>
<td>Blue</td>
<td></td>
</tr>
<tr>
<td>Orange</td>
<td>⃝ ⃝</td>
</tr>
<tr>
<td>Yellow</td>
<td>⃝ ⃝ ⃝ ⃝</td>
</tr>
</tbody>
</table>

Key: ⃝ = 2 footballs

(a) How many footballs are yellow?

(b) 4 footballs are blue.
    Show this on the chart.

(Total for Question 14 is 2 marks)
15 A robot moves forward.
   It then turns left and moves forward again.
   Circle the diagram that shows this journey.

   ![Diagram](image)

(Total for Question 15 is 1 mark)

16 Anna cycles 7km.
   Karina cycles 23km.
   (a) Who cycles further?

   (1)

   (b) How much further?

   km

   (1)

(Total for Question 16 is 2 marks)

TOTAL FOR PAPER IS 18 MARKS
A robot moves forward. It then turns left and moves forward again. Circle the diagram that shows this journey.

(Total for Question 15 is 1 mark)

Anna cycles 7 km. Karina cycles 23 km.

(a) Who cycles further? ..............................................................

(b) How much further? .............................................. km

(Total for Question 16 is 2 marks)
<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Additional guidance</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>35 59 87</td>
<td>Must have all 3 numbers and no additional numbers.</td>
<td>(1)</td>
</tr>
<tr>
<td>2</td>
<td>1 7 3 6 47 61 74</td>
<td>Must have all 5 numbers in the correct order shown.</td>
<td>(1)</td>
</tr>
<tr>
<td>3</td>
<td>22</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>4</td>
<td>Any 2 rectangles shaded</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>6</td>
<td>51</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>7</td>
<td>4 5</td>
<td>Must be both numbers in the correct order.</td>
<td>(1)</td>
</tr>
</tbody>
</table>

**Pearson Edexcel Entry Level Certificate in Mathematics – Sample Assessment Materials**

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## Entry Level 2

### Component 1 – Test mark scheme

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Additional guidance</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>35 59 87</td>
<td>Must have all 3 numbers and no additional numbers. Accept any clear indication of numbers, e.g. ticks.</td>
<td>(1)</td>
</tr>
<tr>
<td>2</td>
<td>17 36 47 61 74</td>
<td>Must have all 5 numbers in the correct order shown.</td>
<td>(1)</td>
</tr>
<tr>
<td>3</td>
<td>22</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>4</td>
<td>Any 2 rectangles shaded.</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>7</td>
<td>51</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>8</td>
<td>4 5</td>
<td>Must be both numbers in the correct order.</td>
<td>(1)</td>
</tr>
<tr>
<td>Question number</td>
<td>Answer</td>
<td>Mark</td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>-----------------------------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>27</td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>89</td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>3</td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Line drawn the correct length.</td>
<td>Allow a line drawn between 7.3 cm to 7.7 cm inclusive.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>8</td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>14(a)</td>
<td>6</td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>14(b)</td>
<td>![Shape]</td>
<td>Allow any poorly drawn shape as long as it is obvious there are 2.</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>![Diagram]</td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>Question number</td>
<td>Answer</td>
<td>Mark</td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>--------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>16(a)</td>
<td>Karina</td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>16(b)</td>
<td>16</td>
<td>(1)</td>
<td></td>
</tr>
</tbody>
</table>

**Additional guidance:**

- Allow a line drawn between 7.3 cm to 7.7 cm inclusive.
- Allow any poorly drawn shape as long as it is obvious there are 2.
Write your name here

Surname

Other names

Pearson Edexcel
Entry Level Certificate

Centre Number

Candidate Number

Mathematics

Entry Level 2
Component 2
Task – Pencils and Pens

Sample assessment material for first teaching September 2017

Total Marks

For teacher’s use only

/12
Task – Pencils and Pens

Part 1

1 Helen has these 1p and 2p coins.

Helen can make 3p in only two different ways using 1p and 2p coins.
Here are the ways.

1p, 1p, 1p
1p, 2p

Helen is going to buy a pencil.
The pencil costs 6p.

How many different ways can Helen use 1p and 2p coins to make 6p?
Show all the ways.

(4)
2 Luke has these 1p, 2p and 5p coins.

Luke is going to buy a pen.
The pen costs 8p.

How many different ways can Luke use 1p, 2p and 5p coins to make 8p?
Show all the ways.

(Total for Part 1 is 8 marks)
Part 2

3 Ravina buys a ruler.
Each ruler costs 22p.
How many different ways can you use 2p, 5p and 10p coins to make 22p?
Show all the ways.

(Total for Part 2 is 4 marks)

TOTAL FOR TASK IS 12 MARKS
## Entry Level 2

### Component 2 – Task mark scheme

**Part 1**

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Additional guidance</th>
<th>Mark</th>
</tr>
</thead>
</table>
| 1               | 4 ways with all correct ways of making 6p seen (1)  
Show all 4 possible ways of making 6p (3)  
OR  
Shows 2 or 3 ways of making 6p (2)  
OR  
Shows 1 way of making 6p (1)  
1+1+1+1+1+1 or 6 × 1p  
2+1+1+1+1 or 2p + 4 × 1p  
2+2+1+1 or 2 × 2p + 2 × 1p  
2+2+2 or 3 × 2p | Ignore repeats for 3, 2 or 1 marks.  
Ignore extra incorrect attempts for 2 marks or 1 mark.  
Accept other correct representations, including drawings of the correct combinations of coins. | (4) |

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Additional guidance</th>
<th>Mark</th>
</tr>
</thead>
</table>
| 2               | 7 ways with all correct ways of making 8p seen (1)  
Show 6 or 7 possible ways of making 8p (3)  
OR  
Show 3, 4 or 5 ways of making 8p (2)  
OR  
Show 1 or 2 ways of making 8p (1)  
1+1+1+1+1+1+1+1 or 8 × 1p  
2+1+1+1+1+1+1 or 2p + 6 × 1p  
2+2+1+1+1+1 or 2 × 2p + 4 × 1p  
2+2+2+1+1 or 3 × 2p + 2 × 1p  
2+2+2+2 or 4 × 2p  
5+2+1  
5+1+1+1 or 5p + 3 × 1p | Ignore repeats for 3, 2 or 1 marks.  
Ignore extra incorrect attempts for 2 marks or 1 mark.  
Accept other correct representations, including drawings of the correct combinations of coins. | (4) |
### Part 2

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Additional guidance</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>6 ways with all correct ways of making 22p seen (1)</td>
<td>Ignore repeats for 3, 2 or 1 marks.</td>
<td>(4)</td>
</tr>
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<tr>
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<tr>
<td></td>
<td>Shows 3 or 4 ways of making 22p (2)</td>
<td></td>
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<tr>
<td></td>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shows 1 or 2 ways of making 22p (1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>11 × 2p</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 × 10p + 2p</td>
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<tr>
<td></td>
<td>1 × 10p + 2 × 5p + 2p</td>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 × 5p + 6 × 2p</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Part 2

Question number

Additional guidance

Mark

3

6

ways with all correct ways of making 22p

(1)

Shows 5 or 6 possible ways of making 22p (3)

OR

Shows 3 or 4 ways of making 22p (2)

OR

Shows 1 or 2 ways of making 22p (1)

11 × 2p

2 × 10p + 2p

1 × 10p + 6 × 2p

2 × 5p + 6 × 2p

Ignore repeats for 3, 2 or 1 mark.

Ignore extra incorrect attempts for 2 marks or 1 mark.

Accept other correct representations, including drawings of the correct combinations of coins.

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 must not be used.

Information

• The total mark for this paper is 18.

• 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.

• Check your answers if you have time at the end.
1. Write the next two numbers in this sequence.
   
   26  22  18  14  
   
   (Total for Question 1 is 1 mark)

2. Round 94 to the nearest 10

   
   (Total for Question 2 is 1 mark)

3. Write the value of the digit 5 in 567

   
   (Total for Question 3 is 1 mark)

4. What is $\frac{1}{4}$ of 12?

   
   (Total for Question 4 is 1 mark)

5. Write down a pair of factors for the number 18

   
   (Total for Question 5 is 1 mark)

6. Double 47

   
   (Total for Question 6 is 1 mark)
7  Tick [✓] the pentagon.

|   |   |   |   |

(Total for Question 7 is 1 mark)

8  Write these numbers in order, smallest first.

| 376 | 749 | 538 | 145 | 424 |

smallest ..........................  largest ..........................

(Total for Question 8 is 1 mark)

9  Work out half of 30

..........................

(Total for Question 9 is 1 mark)

10 Work out 65 × 4

..........................

(Total for Question 10 is 1 mark)
11 What number is ★?

\[ 16 + ★ = 30 \]

\(\text{(Total for Question 11 is 1 mark)}\)

12 Here is a formula.

\[ \text{points} = \text{number of wins} \times 3 \]

A football team wins 6 games.

How many points did they get?

\[ \text{points} \]

\(\text{(Total for Question 12 is 1 mark)}\)

13 Draw one line of symmetry of this shape.

\(\text{(Total for Question 13 is 1 mark)}\)
14 A robot moves forward.
It then turns left and moves forward again.
It then turns right and moves forward again.
Circle the diagram that shows this journey.

(Total for Question 14 is 1 mark)

15 Circle the angles that are bigger than a right angle.

(Total for Question 15 is 1 mark)
16 Plot the point where $x = 4$ and $y = 3$ on the grid.
17 This bar chart shows the number of hours of TV watched by 5 friends.

(a) How many hours of TV does Priya watch?

\[ \underline{8} \text{ hours} \] (1)

(b) Mebs watches more hours of TV than Jon.

How many more?

\[ \underline{6} \text{ hours} \] (1)

(Total for Question 17 is 2 marks)
Question number | Answer  | Mark
1               | 10     | (1)
2               | 90     | (1)
3               | 500    | (1)
4               | 3      | (1)
5               | Any one of the following pairs of factors: (1, 18) (2, 9) (3, 6) (18, 1) (9, 2) (6, 3) Must be a pair and not a list of factors. | (1)
6               | 94     | (1)
7               | [ ]    | (1)
## Entry Level 3

### Component 1 – Non-calculator test mark scheme

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Additional guidance</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
<td></td>
<td>6 (1)</td>
</tr>
<tr>
<td>2</td>
<td>90</td>
<td></td>
<td>1 (1)</td>
</tr>
<tr>
<td>3</td>
<td>500</td>
<td>Allow five hundred, hundreds, hundred, 100</td>
<td>1 (1)</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td></td>
<td>1 (1)</td>
</tr>
<tr>
<td>5</td>
<td>Any one of the following pairs of factors: (1, 18) (2, 9) (3, 6) (18, 1) (9, 2) (6, 3)</td>
<td>Must be a pair and not a list of factors.</td>
<td>1 (1)</td>
</tr>
<tr>
<td>6</td>
<td>94</td>
<td></td>
<td>1 (1)</td>
</tr>
<tr>
<td>7</td>
<td>![Diagram of pentagon]</td>
<td></td>
<td>1 (1)</td>
</tr>
<tr>
<td>Question number</td>
<td>Answer</td>
<td>Mark</td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>--------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>145, 376, 424, 538, 749</td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>15</td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>260</td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>14</td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>18</td>
<td>(1)</td>
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<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Additional guidance</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Either line can be given</td>
<td><img src="image" alt="diagram" /> Allow any form of symmetry line. Allow slight off-centred line as long as the intention is clear. If an additional incorrect line is given, then award no marks.</td>
<td>(1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td><img src="image" alt="diagram" /></td>
<td>(1)</td>
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</tbody>
</table>
### Question 15

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Diagrams" /></td>
<td><img src="image2.png" alt="Diagrams" /></td>
</tr>
</tbody>
</table>

Additional guidance: Accept any clear indication of the angles chosen. Must have both correct angles for mark. No mark if any angle incorrectly identified.

**Mark**: (1)

---

### Question 16

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.png" alt="Graph" /></td>
<td></td>
</tr>
</tbody>
</table>

Additional guidance: accept any symbol at (4, 3). No mark if more than one point is marked.

**Mark**: (1)
<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>17(a)</td>
<td>13</td>
<td>(1)</td>
</tr>
<tr>
<td>17(b)</td>
<td>3</td>
<td>(1)</td>
</tr>
</tbody>
</table>
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 total mark for this paper is 12.
- 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.
- Check your answers if you have time at the end.
Answer ALL questions.

Write your answers in the spaces provided.

1  A newspaper costs £1.26
   A box of chocolates costs £2.34
   What is the total cost?

   £

   (Total for Question 1 is 1 mark)

2  Work out 6 × 13

   ......................

   (Total for Question 2 is 1 mark)

3  2 sweets cost 32p.
   Work out the cost of 6 sweets.

   ...................... p

   (Total for Question 3 is 2 marks)
4. Here is a rectangle.

![Rectangle Diagram]

Work out the perimeter.

\[ \text{Perimeter} = 2 \times (17 + 8) = 2 \times 25 = 50 \text{ m} \]

(Total for Question 4 is 1 mark)

5. A train leaves at 09.30.

It takes 45 minutes to get to London.

What time does it arrive?

\[ \text{Arrival Time} = 09.30 + 45 \text{ minutes} = 10.15 \text{ a.m.} \]

(Total for Question 5 is 1 mark)
6 Measure this angle.

\[ \text{ }^\circ \]

(Total for Question 6 is 1 mark)

7 Here is a thermometer.

\[\begin{array}{c}
\text{10°C} \\
\text{5°C} \\
\text{0°C} \\
\text{-5°C} \\
\text{-10°C}
\end{array}\]

What is the temperature?

\[ \text{ } \] °C

(Total for Question 7 is 1 mark)
8 Work out the difference between 941 and 268

...............................

(Total for Question 8 is 1 mark)

9 5 metres = ________________ centimetres

(Total for Question 9 is 1 mark)

10 32 eggs are packed into boxes of 6

(a) How many boxes are full?

...............................  (1)

(b) How many eggs are left over?

...............................  (1)

(Total for Question 10 is 2 marks)

TOTAL FOR PAPER IS 12 MARKS
**Component 2 – Calculator test mark scheme**

**Question number**

**Answer**

**Mark**

1 (1)

£3.60

Accept £3.60 payable. Do not accept £3.6 or £360 payable.

2 (1)

78

3 (2)

2 marks for final answer 96(p)

1 mark for any one of the following:

32 ÷ 2 (= 16)

6 ÷ 2 (= 3)

32 × 3

5 (1)

50

6 (1)

10.15

Accept 10.15 am

Accept quarter (1/4) past 10

7 (1)

−7

8 (1)

673 or −673
### Entry Level 3

**Component 2 – Calculator test mark scheme**

<table>
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<tbody>
<tr>
<td>1</td>
<td>(£)3.60</td>
<td>Accept £3.60p. Do not accept £3.6 or £360p</td>
<td>(1)</td>
</tr>
<tr>
<td>2</td>
<td>78</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>3</td>
<td>2 marks for final answer 96(p)</td>
<td>1 mark for any one of the following: 32 ÷ 2 (= 16) 6 ÷ 2 (= 3) 32 × 3</td>
<td>(2)</td>
</tr>
<tr>
<td>4</td>
<td>50</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>5</td>
<td>10.15</td>
<td>Accept 10.15 am  Accept quarter ((\frac{1}{4})) past 10</td>
<td>(1)</td>
</tr>
<tr>
<td>6</td>
<td>60</td>
<td>Accept any answer between 58° and 62° inclusive.</td>
<td>(1)</td>
</tr>
<tr>
<td>7</td>
<td>−7</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>8</td>
<td>673 or −673</td>
<td></td>
<td>(1)</td>
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<td>9</td>
<td>500</td>
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<tr>
<td>10(a)</td>
<td>5</td>
<td>(1)</td>
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<tr>
<td>10(b)</td>
<td>2</td>
<td>Accept any correct follow through from an incorrect answer in (a).</td>
<td>(1)</td>
</tr>
</tbody>
</table>
Mathematics
Entry Level 3
Component 3
Task – Pencils and Pens

Sample assessment material for first teaching September 2017

Total Marks

For teacher’s use only

/20
Task – Pencils and Pens

Part 1

1 Helen has these 1p and 2p coins.

Helen can make 3p in only two different ways using 1p and 2p coins.

Here are the ways.

1p, 1p, 1p
1p, 2p

Helen is going to buy a pencil.

The pencil costs 6p.

How many different ways can Helen use 1p and 2p coins to make 6p?

Show all the ways.

(4)
2 Luke has these 1p, 2p and 5p coins.

Luke is going to buy a pen.
The pen costs 8p.

How many different ways can Luke use 1p, 2p and 5p coins to make 8p?

Show all the ways.

(Total for Part 1 is 8 marks)
Part 2

3 Ravina buys a ruler.

Each ruler costs 22p.

How many different ways can you use 2p, 5p and 10p coins to make 22p?

Show all the ways.

(Total for Part 2 is 4 marks)
Part 3

4 Tarek buys a pencil case and some pens for £4.21

He pays with a £5 note.

Find the smallest number of coins you could use to make the change.

List the coins you would use. (2)

5 Astrid is going to buy some gel pens and some glitter pens.

A gel pen costs 23p.

A glitter pen costs 34p.

Astrid wants to buy a total of 6 or more pens.

She only has £2

(a) Show all the different combinations of gel pens and glitter pens that Astrid can get for £2

Give the cost for each combination. (5)

(b) Which combination gives Astrid the smallest amount of change? (1)

(Total for Part 3 is 8 marks)

TOTAL FOR TASK IS 20 MARKS
Component 3

– Task mark scheme

Part 1

Question number

Answer

Additional guidance

Mark

1

4 ways with all correct ways of making 6p seen

(1)

Shows all 4 possible ways of making 6p

(3)

OR

Shows 2 or 3 ways of making 6p

(2)

OR

Shows 1 way of making 6p

(1)

1+1+1+1+1+1

or 6 × 1p

2+1+1+1+1+1

or 2p + 6 × 1p

2+2+1+1+1+1

or 2 × 2p + 4 × 1p

2+2+2+1+1

or 3 × 2p + 2 × 1p

2+2+2+2

or 4 × 2p

Ignore repeats for 3, 2 or 1 mark.

Ignore extra incorrect attempts for 2 marks or 1 mark.

Accept other correct representations, including drawings of the correct combinations of coins.

2

7 ways with all correct ways of making 8p seen

(1)

Shows 6 or 7 possible ways of making 8p

(3)

OR

Shows 3, 4 or 5 ways of making 8p

(2)

OR

Shows 1 or 2 ways of making 8p

(1)

1+1+1+1+1+1+1+1

or 8 × 1p

2+1+1+1+1+1+1+1

or 2p + 6 × 1p

2+2+1+1+1+1+1+1

or 2 × 2p + 4 × 1p

2+2+2+1+1+1+1+1

or 3 × 2p + 2 × 1p

2+2+2+2+1+1+1+1

or 4 × 2p

5+2+1

5+1+1+1+1+1

or 5p + 3 × 1p
## Entry Level 3

### Component 3 – Task mark scheme

### Part 1

<table>
<thead>
<tr>
<th>Question number</th>
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<th>Additional guidance</th>
<th>Mark</th>
</tr>
</thead>
</table>
| **1**           | 4 ways with all correct ways of making 6p seen (1)  
                 Shows all 4 possible ways of making 6p (3)  
                 OR Shows 2 or 3 ways of making 6p (2)  
                 OR Shows 1 way of making 6p (1) | Ignore repeats for 3, 2 or 1 marks.  
                 Ignore extra incorrect attempts for 2 marks or 1 mark.  
                 Accept other correct representations, including drawings of the correct combinations of coins. | (4) |
|                 | 1+1+1+1+1+1 or 6 × 1p  
                 2+1+1+1+1 or 2p + 4 × 1p  
                 2+2+1+1 or 2 × 2p + 2 × 1p  
                 2+2+2 or 3 × 2p | | |

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Additional guidance</th>
<th>Mark</th>
</tr>
</thead>
</table>
| **2**           | 7 ways with all correct ways of making 8p seen (1)  
                 Shows 6 or 7 possible ways of making 8p (3)  
                 OR Shows 3, 4 or 5 ways of making 8p (2)  
                 OR Shows 1 or 2 ways of making 8p (1) | Ignore repeats for 3, 2 or 1 marks.  
                 Ignore extra incorrect attempts for 2 marks or 1 mark.  
                 Accept other correct representations, including drawings of the correct combinations of coins. | (4) |
|                 | 1+1+1+1+1+1+1+1 or 8 × 1p  
                 2+1+1+1+1+1+1 or 2p + 6 × 1p  
                 2+2+1+1+1+1 or 2 × 2p + 4 × 1p  
                 2+2+2+1+1 or 3 × 2p + 2 × 1p  
                 2+2+2+2 or 4 × 2p  
                 5+2+1  
                 5+1+1+1 or 5p + 3 × 1p | | |
### Part 2

<table>
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<tr>
<th>Question number</th>
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<th>Additional guidance</th>
<th>Mark</th>
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<tbody>
<tr>
<td>3</td>
<td>6 ways with all correct ways of making 22p seen (1)</td>
<td>Ignore repeats for 3, 2 or 1 marks.</td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td>Shows 5 or 6 possible ways of making 22p (3)</td>
<td>Ignore extra incorrect attempts for 2 marks or 1 mark.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OR</td>
<td>Accept other correct representations, including drawings of the correct combinations of coins.</td>
<td></td>
</tr>
<tr>
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<td>Shows 3 or 4 ways of making 22p (2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shows 1 or 2 ways of making 22p (1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>11 × 2p</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 × 10p + 2p</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 × 10p + 2 × 5p + 2p</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 × 5p + 2p</td>
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<tr>
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<td>1 × 10p + 6 × 2p</td>
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</tr>
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<td>2 × 5p + 6 × 2p</td>
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### Part 3

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<tr>
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<th>Mark</th>
</tr>
</thead>
</table>
| 4               | Change = 79p (1)  
5 coins with 50p, 20p, 5p, 2×2p shown (1) | Follow through from their answer for the change | (2) |

<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
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<th>Mark</th>
</tr>
</thead>
</table>
| 5(a)            | Shows 11 or 12 combinations (4 marks)  
OR Shows 8 or 9 or 10 combinations (3 marks)  
OR Shows 5 or 6 or 7 combinations (2 marks)  
OR Shows 3 or 4 combinations (1 mark) | Ignore repeats for 4, 3, 2 or 1 marks.  
Ignore extra incorrect attempts for 3, 2 or 1 marks.  
Answers may be in pounds or pence.  
Combinations may be numbers of each pen, rather than price for each pen. | (5) |

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
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<tr>
<td>5×23+2×34</td>
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<td>4×23+3×34</td>
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</tr>
<tr>
<td>3×23+3×34</td>
<td>£1.71</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2×23+4×34</td>
<td>£1.82</td>
<td></td>
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</tr>
<tr>
<td>1×23+5×34</td>
<td>£1.93</td>
<td></td>
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</tr>
<tr>
<td>7×23</td>
<td>£1.61</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6×23</td>
<td>£1.38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5×23+1×34</td>
<td>£1.49</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4×23+2×34</td>
<td>£1.60</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

At least 4 correct costs for combinations of pens (1)
<table>
<thead>
<tr>
<th>Question number</th>
<th>Answer</th>
<th>Additional guidance</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>5(b)</td>
<td>$7 \times 23 + 1 \times 34$ or £1.95 or 195p or 5p change or 7 gel and 1 glitter</td>
<td>Follow through from their combinations and costs in 5(a) provided at least 5 correct combinations given in 5(a).</td>
<td>(1)</td>
</tr>
</tbody>
</table>
5

(b) $7 \times 23 + 1 \times 34 \text{ or } £1.95 \text{ or } 195p \text{ or } 5p \text{ change}

or 7 gel and 1 glitter

Follow through from their combinations and costs in 5

(a) provided at least 5 correct combinations given in 5.

(1)