FUNCTIONAL SKILLS
0860/E3
ENTRY LEVEL MATHEMATICS
Entry 3
ASSESSMENT – CATALOGUE

Assessment Window:
29 April 2013 – 24 May 2013
MAXIMUM TIME ALLOWED: 1 HOUR

For Examiner’s use only
<table>
<thead>
<tr>
<th>Question</th>
<th>Maximum Mark</th>
<th>Mark Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td></td>
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<tr>
<td>2</td>
<td>6</td>
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<td>3</td>
<td>7</td>
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<td>8</td>
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<tr>
<td>7</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td><strong>Total Mark</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ADDITIONAL MATERIALS
A calculator.
Access to some chairs that can be stacked (optional).

INSTRUCTIONS TO CANDIDATES
Use black ink or black ball-point pen.
Write your name, centre number and candidate number in the spaces at the top of this page.
Answer all the questions in the spaces provided.
Remember to check your answers.
1. You have been asked to help your friend buy some furniture. You look at a page in a catalogue showing some tables.

<table>
<thead>
<tr>
<th>Price</th>
<th>Description</th>
<th>Seats</th>
</tr>
</thead>
<tbody>
<tr>
<td>£442</td>
<td>Simple solid wood table</td>
<td>4</td>
</tr>
<tr>
<td>£366</td>
<td>Modern glass table</td>
<td>6</td>
</tr>
<tr>
<td>£724</td>
<td>Simple wooden table</td>
<td>4</td>
</tr>
<tr>
<td>£682</td>
<td>Solid wood table</td>
<td>8</td>
</tr>
<tr>
<td>£216</td>
<td>Simple table</td>
<td>2</td>
</tr>
<tr>
<td>£565</td>
<td>Stylish table</td>
<td>7</td>
</tr>
</tbody>
</table>

Your friend is interested in a table with a circular top.

You need to leave a note for your friend, giving the prices of all of the circular tables to the nearest £100.

She will also want to know how many people she can seat around the table.
Write the short note for your friend.
2. You notice an offer in the same catalogue. The offer says

**All chairs half price**

<table>
<thead>
<tr>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>£25</td>
<td>Wooden back chair with brown seat</td>
</tr>
<tr>
<td>£24</td>
<td>Green chair with cushion back and seat</td>
</tr>
<tr>
<td>£43</td>
<td>Special edition white chair with cushion seat</td>
</tr>
<tr>
<td>£26</td>
<td>Lovely leather chair with solid wood legs</td>
</tr>
<tr>
<td>£22</td>
<td>Beautiful red leather chair. Would look lovely anywhere!</td>
</tr>
<tr>
<td>£35</td>
<td>Patterned chair with a lovely curved back</td>
</tr>
</tbody>
</table>
Your friend has told you that she is interested in buying some chairs from this catalogue. She would like to buy 5 chairs. You know she would like the patterned chair. You think she might also like the cheapest chair. How much would she save altogether if she bought 5 of the cheapest chairs instead of 5 of the patterned chairs?
3. The catalogue you have is from a furniture shop.

The shop opens for the day at 9:00 a.m.
The shop closes for lunch for an hour and a half at 12:00 p.m.
The shop closes for the day at 5:00 p.m.

Opening hours

9:00 a.m. to 12:00 p.m.
Closed for lunch for an hour and a half
Close at 5:00 p.m.

How long is the shop open for in an afternoon?
You decide to meet your friend in the shop at 3:45 p.m.

You then take 45 minutes looking around the shop with your friend before leaving to go to a snack bar.

Your friend wants to go back to the shop for another quick look around after having a snack.

It takes about $\frac{1}{4}$ hour to order and eat your snacks.

How much time do you have left to go back to the shop before the shop closes? Remember the shop closes at 5:00 p.m.
4. Here is the snack bar menu.

<table>
<thead>
<tr>
<th>MENU</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DRINKS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tea</td>
<td>60 pence</td>
<td></td>
</tr>
<tr>
<td>Coffee</td>
<td>80 pence</td>
<td></td>
</tr>
<tr>
<td>Bottled water</td>
<td>50 pence</td>
<td></td>
</tr>
<tr>
<td>PIZZA SLICES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with peppers</td>
<td>75 pence</td>
<td></td>
</tr>
<tr>
<td>with ham</td>
<td>70 pence</td>
<td></td>
</tr>
<tr>
<td>with tomato</td>
<td>60 pence</td>
<td></td>
</tr>
</tbody>
</table>

You have these coins in your pocket.

Do you have enough money to buy 2 bottles of water and any 2 pizza slices? Explain your answer.
5. The table your friend orders weighs 220 kg.
   Each of the 5 chairs she orders weighs 34 kg.

The furniture store charges for delivery.

Delivery cost

Charge for the van £20

AND

£1.45 per km to your house from the store

AND

a charge depending on what the furniture you buy weighs altogether

<table>
<thead>
<tr>
<th>Weight Range</th>
<th>Charge (£)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 300 kg</td>
<td>£3</td>
</tr>
<tr>
<td>300 kg to 400 kg</td>
<td>£6</td>
</tr>
<tr>
<td>400 kg and over</td>
<td>£10</td>
</tr>
</tbody>
</table>

Your friend lives 5 km from the furniture store.

The furniture store says that the cost for delivery is £36.

Check to find out if this is the correct delivery charge.
Show all your working and state clearly what you think the delivery charge should be for the table and 5 chairs.
6. The graph shows the number of sales of three different tables in a week.
Which table is the most popular?

Which shape of table is the most popular?

Altogether the circular wood tables sold for £1980.
How much did each circular wood table cost?

\[ \frac{1}{2} \] of the circular wood tables were sold to women.
How many circular wood tables were sold to women?

How many tables were sold altogether?
7. Look at some chairs in the room or at the diagram below. Chairs are stored in stacks.

How many chairs do you think could safely be stored in a stack? Give a reason for your answer.

Estimate how high the safe stack of chairs might be in centimetres.
FUNCTIONAL SKILLS
0860/E3-A
ENTRY LEVEL MATHEMATICS
Entry 3
Assessment: Catalogue
Marking Scheme + Candidate and Teacher Declaration
Assessment window:
29 April 2013 - 24 May 2013

Marking Guidance
The tasks should be internally assessed.
The marking guidance does not detail every possible outcome, hence a teacher comment column is provided to briefly describe the candidate’s response.
Where a candidate’s response differs from the guidance, the teacher should determine “the best fit” bearing in mind the marking guidance.
Wherever possible, evidence must be collated or assessors must confirm that candidates have successfully met the marking criteria.
Please ensure that all pages for each candidate are attached securely.

Candidate and Teacher Declaration
After completing the assessment, the candidate and teacher must sign the declaration below.

NOTICE TO CANDIDATE
The work you submit for assessment must be your own. If you copy from someone else, allow another candidate to copy from you, or if you cheat in any other way, you may be disqualified from at least the subject concerned.

Declaration by candidate
I have read and understood the Notice to Candidate (above). I have completed this assignment without assistance other than that which my teacher has explained is acceptable within the specification.

Candidate's Signature:

Declaration by teacher
I confirm that the candidate’s work was conducted under the conditions laid out by the specification. I have authenticated the candidate’s work and am satisfied that to the best of my knowledge the work produced is solely that of the candidate.

Teacher’s Signature: Date:
<table>
<thead>
<tr>
<th>Q</th>
<th>Entry 3 Assessment - Catalogue</th>
<th>Mark Awarded</th>
<th>Teacher Comment (where appropriate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Award 4 marks for sight of £400 seats 6 and £700 seats 4 and £600 seats 7, OR Award 3 marks for an error in the 6 numbers, or all correct but without £ sign, OR Award 3 marks for 3 correctly rounded and number of seats for all non-circular tables Award 2 marks for at least 1 price rounded correctly and correct number of seats given, OR Award 2 marks for 2 correctly rounded and number of seats for non-circular tables Award 1 mark for at least 1 price rounded correctly (any shape table)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Award 6 marks for £32.5(0) from correct working or no working shown, OR Award 5 marks for 32.5(0) without the £ sign, or for finding (£)87.5(0) and (£)55 with attempt to find the difference, or attempting 5 lots of 6.5(0), OR Award 4 marks for (£)87.5(0) or (£)55, or calculating the difference in the 1/2 price cost of each chair 6.5(0), OR Award 3 marks for (£)175 and (£)110, with an attempt to half either or the difference, or ‘35-22’ with attempt to find the answer, OR Award 2 marks for selecting the £22 and £35 chairs with some idea of how to calculate the cost of 5 chairs or halving the prices, OR Award 1 mark for selecting £35 and £22 chairs, or attempting to calculate appropriately with either chair, e.g. multiply by 5 or divide by 2</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Award 3 marks for an answer of 3 1/2 hours or 210 minutes, OR Award 2 marks for attempting at time difference from 1:30 p.m. to 5:00 p.m., OR Award 1 mark for finding opening time 1:30(p.m.) Award 4 marks for 15 minutes or 1/2 hour from no or correct working (or a little less from valid working and reasoning), OR Award 3 marks for method being correct, i.e. 3:45 add on 45 minutes add on 15 minutes and looking at time difference from 5:00 p.m., OR Award 2 marks for finding 4:30 then with uncertainty of 1/4 hour in minutes, OR Award 1 mark for 1 suitable process step shown</td>
<td>3 4</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>For 4 marks candidates must have worked with the cheapest pizza and still found, not enough money Award 4 marks for NO from a correct answer with a comparative reason, e.g. ‘£1.20, which is more than the £1 left (after buying the water). I only have £2, ‘£2.20 is more than £2’ OR Award 3 marks for NO with sight of (£)2 or 200(p) and some correct costing of 4 prices, or £1 for each considered with 2 relevant prices, OR Award 2 marks for NO with sight of (£)2, or 200(p) and sight of 50(p) for water but no decision on pizza Award 1 mark for sight of (£)2, or 200(p), or (£)1 for each</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>
### Q 5: Entry 3 Assessment - Catalogue

- Award 6 marks for full workings including sight of 390kg, giving an answer of delivery cost £33.25 or over charge £2.75 so £36 is incorrect, OR
- Award 5 marks for \(20 + (5 \times 1.45) + 6\) considered and sight of 390(kg), OR
- Award 4 marks for 390(kg) but not interpreted as £6 charge with attempt 20 plus costs based on looking at 1.45, OR
- Award 3 marks for an answer of \(20 + 7.25 + \ldots\), OR
- Award 2 marks if either weight or mileage aspect understood, OR
- Award 1 mark for an attempt to calculate delivery charge

<table>
<thead>
<tr>
<th>Mark Awarded</th>
<th>Teacher Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>(where appropriate)</td>
</tr>
</tbody>
</table>

### Q 6

- Award 1 mark for ‘square (wood)’, do not accept ‘wood’ alone
- Award 1 mark for ‘circular’ or ‘circle’
- Award 2 marks for (£)330, OR
- Award 1 mark for an attempt to divide 1980 by 6
- Award 2 marks for 3 (tables), OR
- Award 1 mark for attempting to divide 6 by 2
- Award 2 marks for 17, OR
- Award 1 mark for attempt to add 6+4+7

### Q 7

- Award 2 marks for an answer between 3 and 12, with a reason, e.g. ‘more might topple over’, ‘could not reach’ OR
- Award 1 mark for an answer of 2 or between 13 and 20 (inclusive), or a reason e.g. ‘might fall over’, ‘could not reach’
- Award 3 marks for a reasonable estimate based on their number of chairs, e.g. thinking that it might be about 100 cm up to about 300 cm, OR
- Award 2 marks for an answer slightly outside reasonable measurement, e.g. between 80 and 99 cm or between 300 cm and 500 cm, OR
- Award 1 mark for estimating the floor to seat height of 1 chair, or an answer between 50 and 79 cm

### Out of a total of 40 marks

<table>
<thead>
<tr>
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<th>Teacher Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>(where appropriate)</td>
</tr>
<tr>
<td>1</td>
<td></td>
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<tr>
<td>2</td>
<td></td>
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<tr>
<td>3</td>
<td></td>
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<tr>
<td>5</td>
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**Totalmarks:** 40
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Teacher’s Signature: Date:
### Award for insights and understanding

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   - Award 2 marks for at least 1 price rounded correctly and correct number of seats given, OR
   - Award 2 marks for 2 correctly rounded and number of seats for non-circular tables
   - Award 1 mark for at least 1 price rounded correctly (any shape table)

   **Mark Awarded:** 4

2. **Award for working with numbers**
   - Award 6 marks for £32.5(0) from correct working or no working shown, OR
   - Award 5 marks for 32.5(0) without the £ sign, or for finding (£)87.5(0) and (£)55 with attempt to find the difference, or attempting 5 lots of 6.5(0), OR
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   - Award 2 marks for selecting the £22 and £35 chairs with some idea of how to calculate the cost of 5 chairs or halving the prices, OR
   - Award 1 mark for selecting £35 and £22 chairs, or attempting to calculate appropriately with either chair, e.g. multiply by 5 or divide by 2

   **Mark Awarded:** 6

3. **Award for time management**
   - Award 3 marks for an answer of 3 $\frac{3}{4}$ hours or 210 minutes, OR
   - Award 2 marks for attempting at time difference from 1:30 p.m. to 5:00 p.m., OR
   - Award 1 mark for finding opening time 1:30(p.m.)

   **Mark Awarded:** 3

4. **Award for financial decision-making**
   - For 4 marks candidates must have worked with the **cheapest** pizza and still found, not enough money

   **Mark Awarded:** 4

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**Teacher Comment** (where appropriate)

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<td></td>
</tr>
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<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[5]</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td><strong>Out of a total of 40 marks</strong></td>
<td>40</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>