FUNCTIONAL SKILLS

0860/E3

MATHEMATICS

Entry 3

Assessment: Curry ingredients

Assessment Window:

27 April 2015 – 22 May 2015

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>8</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>

ADDITIONAL MATERIALS

A calculator.

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 questions. Write your answers in the spaces provided in this booklet. Remember to check your answers.
1. You and some friends decide to make a vegetarian curry.

You decide to buy chickpeas and lentils.
You will need 820 g of chickpeas and 840 g of lentils.

### Chickpeas
- **Price:** 45p
- **Weight:** 400g

### Chickpeas
- **Price:** 48p
- **Weight:** 450g

### Chickpeas
- **Price:** 50p
- **Weight:** 420g

### Lentils
- **Price:** 43p
- **Weight:** 410g

### Lentils
- **Price:** 34p
- **Weight:** 420g
The supermarket has these tins of chickpeas and lentils with prices as shown.

You need enough chickpeas and lentils for the vegetarian curry.

What is the least you can spend?

Remember you will need 820 g of chickpeas and 840 g of lentils.

Show how you work this out.
2. 

**Curry recipe**

*Feeds 5 people*

- 2 tins of chickpeas
- 2 tins of lentils
- 3 onions, chopped
- 1 jar curry sauce

Cook onions for 5 minutes
Drain lentils and chickpeas
Then, cook all ingredients for 35 minutes

What is the total cooking time for this curry?
If you want to serve at 2 p.m., what is the latest time you should start cooking the onions? [3]

**Total cooking time is ........................ minutes**

**Latest time to start cooking the onions is ..........................**
The energy in food is measured in ‘kcal’.

<table>
<thead>
<tr>
<th>Item</th>
<th>kcal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tin of chickpeas</td>
<td>420</td>
</tr>
<tr>
<td>Tin of lentils</td>
<td>360</td>
</tr>
<tr>
<td>One fried onion</td>
<td>65</td>
</tr>
<tr>
<td>Jar of curry sauce</td>
<td>240</td>
</tr>
</tbody>
</table>

Use the recipe to show that a portion of this curry would be less than 500 kcal per person.
State how many kcal less than 500 kcal a portion of this curry would be.
Remember the recipe feeds 5 people.
Show how you work this out.

A portion of this curry is ...................... kcal

A portion of this curry is ...................... kcal less than 500 kcal
3. Some of your friends try to guess how many dried lentils there are on a spoon.

Complete the table by writing your friends’ guesses to the nearest 10.

<table>
<thead>
<tr>
<th>Name</th>
<th>Their guess</th>
<th>To the nearest 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Donna</td>
<td>83</td>
<td></td>
</tr>
<tr>
<td>Eddie</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>Neerat</td>
<td>92</td>
<td></td>
</tr>
<tr>
<td>Shiva</td>
<td>108</td>
<td></td>
</tr>
</tbody>
</table>

There are 90 lentils on the spoon.

Who gave the closest guess? ........................................................................................................... [3]
Now they decide to guess how many lentils there are in a cup.

Complete the table by writing your friends’ guesses to the nearest 100.

<table>
<thead>
<tr>
<th>Name</th>
<th>Their guess</th>
<th>To the nearest 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Donna</td>
<td>992</td>
<td></td>
</tr>
<tr>
<td>Eddie</td>
<td>1008</td>
<td></td>
</tr>
<tr>
<td>Neeraj</td>
<td>2110</td>
<td></td>
</tr>
<tr>
<td>Shiva</td>
<td>1445</td>
<td></td>
</tr>
</tbody>
</table>

There are 1300 lentils in the cup.

Who gave the closest guess? .................................................................
4. To cook lentils they have to boil at a temperature of 116°C. The lentils then have to simmer at a temperature of 102°C.

Mark these temperatures on the scale. [2]
5. A group of 25 people needs to decide whether to add cauliflower or potato to a curry.

\[ \frac{1}{5} \text{ of the 25 people say they would like to add only cauliflower to the curry.} \]
\[ \frac{2}{5} \text{ of the 25 people say they would like to add only potato to the curry.} \]
\[ 4 \text{ of the 25 people say they would like to add both cauliflower and potato to the curry.} \]

The others don’t want either cauliflower or potato added to the curry.

How many people don’t want either cauliflower or potato added to the curry?

Show how you work this out.

Explain how you might check your answer.
6. You go out shopping for curry ingredients with one £10 note.

When you finish shopping you have these coins left.

How much did you spend?
7. You look to buy some napkins. You are looking at packs and sets of napkins.

These napkins are sold in packs of 6.

In two packs there are 12 napkins.

**Complete this number pattern** to find out how many napkins there are in 7 packs:

6, 12, 18, ..........., ..........., ..........., ..........., ..........., ...........

[2]

These napkins are arranged in sets of 8 napkins.

In picking up 2 sets of napkins there are 16 napkins altogether.

**Complete this number pattern** to find out how many napkins there are in picking up 6 sets:

8, 16, ..........., ..........., ..........., ..........., ...........

[2]

END OF PAPER
FUNCTIONAL SKILLS
0860/E3-A
MATHEMATICS
Entry 3
Assessment: Curry ingredients
Marking Scheme + Candidate and Teacher Declaration

Assessment window:
27 April 2015 – 22 May 2015

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.

<table>
<thead>
<tr>
<th>NOTICE TO CANDIDATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

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 - Curry ingredients</th>
<th>Mark Awarded</th>
<th>Teacher’s Comments (where appropriate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Award 2 marks for selecting 2 tins of lentils and 2 tins with sufficient quantity of chickpeas (not 2 @ 400g) OR Award 1 mark for selecting 2 tins of lentils and 3 400g tins of chickpeas Award 1 mark for selecting 2 420g tins of lentils at 34p each Award 2 marks for selecting 1 400g tin of chickpeas at 45p AND 1 450g tin of chickpeas at 48p OR Award 1 mark for selecting 1 400g tin of chickpeas at 45p AND 1 420g tin of chickpeas at 50p Award 3 marks for £1.61 or 161p OR Award 2 marks for 161 or 1.61 without units or with incorrect units OR Award 1 mark for attempting 34p + 34p + 45p + 48p, or for correctly finding the cost of their selection of at least 2 tins of lentils and 2 tins of chickpeas</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Award 1 mark for 40 minutes Award 2 marks for 1:20 p.m. or correct follow through from their number of minutes total cooking time OR Award 1 mark for attempting to go back 40 minutes from 2pm, or using their total cooking time back from 2pm Award 4 marks for 399 (kcal per portion) OR Award 3 marks for attempt (420+420+360+360+65+65+65+240)÷5 as a sum or in parts OR Award 2 marks for attempt to total 420+420+360+360+65+65+65 +240 (=1955) or for attempting at least 2 of (420+420)+5 or (3×65)+5 or 240+5 OR Award 1 mark for attempting 420+360+65+240 or attempting to divide a value of kcal by 5 Award 2 marks for an answer of 101 (kcal) OR Award 1 mark for an answer of 500 – ‘their kcal per person’ correctly evaluated</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
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<th>Mark</th>
<th>Mark Awarded</th>
<th>Teacher’s Comments (where appropriate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Award 2 marks for 80, 80, 90 and 110 indicated OR Award 1 mark for any 2 of these values correct Award 1 mark for selecting Neeraf Award 2 marks for 1000, 1000, 2100 and 1400 indicated OR Award 1 mark for any 2 of these values correct Award 1 mark for selecting Shiva</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Award 2 marks for both temperatures indicated appropriately OR Award 1 mark for either temperature indicated appropriately</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Award 2 marks for the sight of $\frac{1}{5}$ of 25 as 5 and $\frac{2}{5}$ of 25 as 10, or for sight of $\frac{3}{5}$ of 25 as 15 OR Award 1 mark for the sight $\frac{1}{5}$ of 25 as 5 or $\frac{2}{5}$ of 25 as 10, or for attempting to calculate $\frac{3}{5}$ of 25. Award 2 marks for the strategy ‘25 subtract $\frac{1}{5}$ of 25 subtract $\frac{2}{5}$ of 25 subtract 4’ OR Award 1 mark for the strategy ‘25 subtract $\frac{1}{5}$ of 25 subtract $\frac{2}{5}$ of 25 subtract 4’ with one element missing, e.g. not subtracting the 4. Award 2 marks for an answer of 6 (people) from appropriate working OR Award 1 mark for attempt 25 – 5 – 10 – 4, or follow through ‘25 – their 5 – their 10 – 4’ evaluated correctly. Award 1 mark for a check, e.g. adding back to 25 or a different method or a diagram showing $\frac{1}{5}$ s.</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Q</td>
<td>Entry 3 Assessment - Curry ingredients</td>
<td>Mark</td>
<td>Mark Awarded</td>
<td>Teacher's Comments (where appropriate)</td>
</tr>
<tr>
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</tr>
<tr>
<td>6</td>
<td>Award 4 marks for £6.19 OR Award 3 marks for total £3.81 with an attempt to subtract from £10, OR finding the difference between £3.81 and £10 (including using addition) OR Award 2 marks for total £3.81 or reasonable attempt to add on to make £10 using their total value of the coins, OR Award 1 mark for sight of working from 81p to £1 giving 19p</td>
<td>4</td>
<td>[4]</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Award 2 marks for sight of (6, 12, 18,) 24, 30, 36, 42 OR Award 1 mark for sight of 3 increasing numbers with a difference of 6 between their 1\text{st} and 2\text{nd} numbers and a difference of 6 between their 2\text{nd} and the 3\text{rd} number or final answer given correctly (42). Award 2 marks for sight of (8, 16,) 24, 32, 40, 48 OR Award 1 mark for sight of 3 increasing numbers with a difference of 8 between their 1\text{st} and 2\text{nd} number and a difference of 8 between their 2\text{nd} and the 3\text{rd} number, or final answer given correctly (48).</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Total out of a possible of 40 marks

40