## Pearson Edexcel Functional Skills - Entry 2

## Mathematics



## Entry 2

## Section A - Non-calculator

## Sample Entry 2 sample assessment materials for first teaching September 2019

Time: 25 minutes

Candidate name

| Candidate signature | Date |
| :--- | :--- |

## You must have a

- black or blue ink pen
- pencil
- ruler
- rubber.


## Instructions

- Answer every question.
- You can write or draw to show your answers.
- You must not use a calculator.


## Information

- The total number of marks for this section is 7 .


## Advice

- Read each question carefully.
- Check your work at the end.
- Ask if you do not understand any words.

The Examiner explains
Each paper opens with the same familiar layout including:

- Equipment required
- Instructions candidates must follow
- Information about the marks
- Supportive advice on technique

All candidates should be made aware of this information before they start
$\qquad$

1 Liv drives her car to work.
She works out the monthly cost of parking.

She does this calculation.


The Examiner explains
Question and key information is written in bold

## What is the missing symbol?

Tick ( $\checkmark$ ) the correct answer.

()


The Examiner explains
To help you see how the mark scheme works they have been printed alongside each question
()

2 Liv is thinking about going to work by bus.

The journey by bus takes 52 minutes.

The journey by car takes 35 minutes.

Liv says the car takes 23 minutes less than the bus.

## Is Liv correct?

## You must show your working.



Show your working and answer in the box below.

The Examiner explains
Working is essential in this type of question requiring a decision
Candidates must show working with their answer to their decision

The Examiner explains
Prompts the candidate to give a decision
Tick $(\checkmark)$ the com


3 Liv drives 9 km between home and work 8 times a week.

She works out how far she drives in a week.

$$
8 \times 9=\square
$$

## Complete the calculation.

Show your answer in the box below.


| Question | Answer | Mark(s) | Content |
| :---: | :--- | :---: | :---: |
| 3 | $72(\mathrm{~km})$ | 1 | E 2.6 | | The Examiner explains |
| :--- |
| Information in brackets is optional; it <br> is not required to award marks | is not required to award marks

4 At work Liv puts apple pies into boxes.

Liv has 42 apple pies.

Each full box has 9 apple pies.

How many full boxes of apple pies does Liv have?
Show how many apple pies are left over.

Show your working and your answers in the box below.

$\qquad$ full boxes
$\qquad$ apple pies left over

The Examiner explains
Award 1 mark for
A valid process with no number of full boxes or apple pies left over given
OR

The Examiner explains
Award 2 marks for indicating correct number of full boxes OR apple pies left over

A valid process with incorrect number of full boxes or apple pies left over given

4
Valid process to find
$42 \div 9$
4 (full boxes) OR
6 (apple pies left over)

4 (full boxes) AND
6 (apple pies left over)

Accept only if 4 is clearly the number of full boxes and 6 is the remainder

## The Examiner explains

Award 3 marks for
No process shown with correct number of full boxes AND apple pies left over given
OR
Valid process with correct number of full boxes
AND apple pies left over given
OR
Invalid process, correct number of full boxes AND

## Pearson Edexcel Functional Skills - Entry 2

## Mathematics



## Entry 2

## Section B - Calculator

Sample Entry 2 controlled assessment materials for first teaching September 2019

## Time: 65 minutes

| Candidate name |  |
| :--- | :--- |
| Candidate signature | Date |

## You must have a

- black or blue ink pen
- pencil
- ruler
- rubber
- calculator.


## Instructions



Each paper opens with the same familiar layout Including

- Equipment required
- Instructions candidates must follow
- Information about the marks
- Supportive advice on technique All candidates should be made aware of this information before thev start
- Answer every question.
- You can write or draw to show your answers.
- You may use a calculator.


## Information

- The total number of marks for this section is 21 .


## Advice

- Read each question carefully.
- Check your work at the end.
- Ask if you do not understand any words.

1 Alex wants to buy a car.

He has a plan of his house and driveway.


Alex wants the longest car that fits his driveway.

| Length of cars for sale |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| car | A | B | C | D | E | F |
| length <br> (m) | 4.2 | 3.8 | 4.6 | 4.8 | 4.4 | 4.7 |

## Which car will Alex choose?

Show your answer in the box below.
The Examiner explains
The candidate needs to extract information from a table

If the answer is clearly given, accept even if it is not in the answer box

| Question | Answer | Mark(s) | Content |
| :---: | :--- | :---: | :---: |
| 1 | Indicates (car) E OR 4.4 (m) and no other | 1 | E2.22 |

## The Examiner explains

Accept any clear indication, for example:

- tick
- cross
- underline
- circling
- highlighting

The Examiner explains References the subject content within the E2 specification

2 The chart shows the costs of petrol from different companies.


How much more does petrol cost from company B than company D?

Show your answer in the box below.
$\square$

The Examiner explains
The candidate needs to read the scale on the bar chart correctly and make a comparison

| Question | Answer | Mark(s) | Content |
| :---: | :--- | :---: | :---: |
| 2 | 5 (pence for each litre) | 1 | E2.23 |

3 Alex has a full tank of petrol on Monday.

The diagram shows his petrol gauge on Friday.


## What fraction of the petrol is left?

Show your answer in the box below.


The Examiner explains
The candidate needs to recognise simple fractions

| Question | Answer | Mark(s) | Content |
| :---: | :--- | :---: | :---: |
| 3 | $\frac{1}{4}$ | 1 | E2.10 |
|  | Accept in words, e.g. one quarter |  |  |

## The Examiner explains

Accept any understandable spelling

The Examiner explains
The candidate needs to sort and classify objects using two criteria

4 Alex needs to buy petrol.

He goes to the nearest service station that is open.


## Which service station does he choose?

Tick ( $\checkmark$ ) the correct answer.


| Question | Answer | Mark(s) | Content |
| :--- | :--- | :---: | :---: |
| 4 | Indicates (the service station) 17 (km away) and <br> no othey | 1 | E2.24 | | The Examiner explains |
| :--- |
| Accept any clear indication, for example: <br> - tick <br> • cross <br> • underline <br> • circling <br> $\bullet$ |

5 Alex and his friend go to a concert by car.

The Examiner explains The candidate needs to divide a two-digit whole number

The cost of the journey is $£ 36$


## How much money does each of them pay?

## Use the correct symbol for money.

Show your working and your answer in the box below.


## The Examiner explains

Candidates can use more than one method to work out their answer.
Any appropriate method is valid

| Question | Answer | Mark(s) | Content |
| :---: | :--- | :---: | :---: |
| 5 | Valid process to find each friend's share e.g. <br> $36 \div 2$ | 1 or | E2.8 |
|  | $(£) 18$ | 2 | E2.8 |
|  | Correct use of $£$ symbol with their value | 1 | E2.12 |



## 6 a) Round 36 to the nearest 10

Show your answer in the box below.
b) Use the rounded number to check your answer to question 5

Show your check in the box below.


The Examiner explains
The number must be correctly rounded to gain this mark


7 Alex needs to buy car wax.

## Price list

$$
\text { Turbo jet washer } £ 55
$$

Solo car wax £32
Quix car wax
£26
Kleano screen wash £21
Auto car wax
£19
Handy brush
£13
Maxon wheel cleaner
£11

Alex has $£ 25$ to spend.

## Which car wax can Alex buy?

| Question | Answer | Mark(s) | Content |
| :---: | :--- | :---: | :---: |
| 7 | Indicates Auto (car wax) OR $£ 19$ and no other | 1 | E 2.22 |

The Examiner explains
Accept any clear indication, for example:

- tick
- CrOSS
- underline
- circling
- highlighting

8 This is the shape of a can of cleaning spray.


## What is the name of this shape?

The Examiner explains The candidate needs to recognise and name the 3-D shape

| Question | Answer | Mark(s) |
| :---: | :--- | :---: |
| 8 | cylinder <br> Accept any reasonable spelling | 1 |

## The Examiner explains

Accept any understandable spelling

9 Alex makes a mixture of screen wash and water.

He pours screen wash into a measuring jug.


Alex will add 80 ml of water to the jug.

How much mixture will he have to the nearest division?

The Examiner explains
The candidate needs to read the question carefully to ensure they add the amount of screen wash in the jug and the given amount of water and give the total amount of mixture Alex will have

Use the correct unit for capacity.



## The Examiner explains

If the candidate reads the scale on the jug to the nearest labelled division OR shows incorrect total within the given tolerance they achieve 1 mark. Units of measurement are not required.


10 Alex looks at the water temperature gauge in his car.


The normal water temperature is $79^{\circ} \mathrm{C}$.

How much hotter is the water than normal?


Show your working and your answer in the box below.



11 The results of a survey show how people get to work.

| How people get <br> to work | Number of <br> people |
| :---: | :---: |
| bike | 12 |
| bus | 15 |
| walk | The Examiner explains <br> The candidate needs to <br> take information from the <br> table and represent the <br> information in a bar chart |
| car | 23 |

Alex needs a bar chart of the survey result

Show how many people get to work by car on the chart.

How people get to work


| Question | Answer | Mark(s) | Content |
| :---: | :--- | :---: | :---: |
| 11 | Draws a correct bar to show 23 people who use a <br> car. <br> Accept a clear point or line indicating the correct <br> value in the correct position (above the category <br> label for car) | 1 | E2.25 |

12 Alex parks his car at the company where he works.

These are the parking spaces.


Key: $\square$ is one parking space
The company needs 57 parking spaces.

## Are there enough parking spaces?

## Show why you think this.

The Examiner explains
Working is essential in this type of question requiring a decision
Candidates must show working with their answer to their decision


| Question | Answer | Mark(s) | Content |
| :---: | :--- | :---: | :---: |
| 12 | No AND 53 (parking spaces) OR <br> No AND 4 (parking spaces) |  |  |
| The Examiner explains <br> The correct number parking spaces <br> AND <br> A correct decision <br> must be shown to award 1 mark | E2.1 |  |  |

13 A row of parking spaces has odd numbers.

$$
\begin{array}{lll}
23 & 25 & 27
\end{array}
$$

## What is the next odd number?



Show your answer in the box below.
The Examiner explains
The candidate needs to sequence odd numbers
$23 \quad 25 \quad 27$

The Examiner explains If the answer is clearly given, accept even if it is not in the answer box

| Question | Answer | Mark(s) | Content |
| :---: | :--- | :---: | :---: |
| 13 | 29 | 1 | E 2.3 |

14 Alex needs his car repaired.

He wants his car repaired between the $30^{\text {th }}$ August and the $10^{\text {th }}$ September.

The garage gives Alex dates when they can repair his car. Which date will Alex choose?

Tick $(\checkmark)$ the correct answer.


Dates when the garage can repair the car

( )


| Question | Answer | Mark(s) | Content |
| :---: | :--- | :---: | :---: |
| 14 | Indicates 08/09/2019 and no other | 1 | E2.13 |
| The Examiner explains <br> Accept any clear indication, for example: |  |  |  |

- tick
- cross
- underline
- circling
- hiahliahtina

15 Alex takes his car to a garage.

He has a street map.


The garage is on the left between a supermarket and a bank.

## Show where the garage is on the map.


$\square$

The Examiner explains
The candidate needs to use appropriate positional vocabulary

| Question | Answer | Mark(s) | Content |
| :---: | :--- | :---: | :---: |
| 15 | Indicates on the left between the supermarket and | 1 | E2.21 |
| Ree bank and no other |  |  |  |

## The Examiner explains

Accept any clear indication, for example:

- tick
- cross
- underline
- circling
- highlighting

