

Reformed Functional Skills  
**Mathematics at Entry 3**

For first teaching September 2019

Valid from September 2019 to August 2020

**Set 2**

Mark Scheme

## **Functional Skills qualifications from Pearson**

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## General guidance on the use of the mark scheme

1. Where the answer is a number, accept:
  - figures
  - words in any understandable spelling.
2. Where the mark scheme states 'indicates', accept any clear indication, for example:
  - tick
  - cross
  - underline
  - circling
  - highlighting.
3. If the answer is clearly given, accept even if it is not in the answer box.
4. If the answer is in words, accept any understandable spelling.
5. Units can be ignored unless required explicitly by the mark scheme.
6. Where a mark is available for correct money format, accept correct use of the appropriate symbol with decimal notation e.g. £28.50. Do not accept £28.5 or £28.50p or 28.50£.
7. Information in brackets is optional and it is not required to award marks.
8. Mark crossed-out work if it is legible and has not been replaced.
9. Where more than one response is indicated, award a mark only if all incorrect responses are crossed out.
10. 'Valid process' means any method that is complete and correct.
11. Where the mark scheme states '1 or' and '2' marks, see example below.

	Valid working e.g. 350 + 150	1 or	
	(£)500	2	

Candidate answer examples	Mark awarded	Explanation
500	2	No process shown, correct answer
350 + 150 = 500	2	Valid process and correct answer
350 + 100 = 500	2	Process not valid, correct answer
150 + 350	1	Valid process, no answer
350 + 150 = 600	1	Valid process, wrong answer
350 + 100 = 450	0	Process not valid, wrong answer

## Mark scheme, Section A – Non-calculator

Question	Answer	Mark(s)	Content
1	Valid process to compare lengths e.g. 1000 – 700 OR 1000 – 250 OR 1000 – 700 – 250 OR 700 + 250 AND 1000	1 or	E3.15
	Yes AND 300 (mm) OR Yes AND 750 (mm) OR Yes AND 50 (mm) Yes AND 950 (mm) AND 1000 (mm)  Accept equivalents in metres. Working must be shown in consistent units	2	E3.15
2	Valid process to find the total amount paid e.g. $72 \times 8$	1 or	E3.4
	(£)576	2	E3.4
3	Valid process to find the number of bags for each helper e.g. $200 \div 16$	1 or	E3.3
	12 (bags for each helper) OR 8 (bags left over)	2 or	E3.3
	12 (bags for each helper) AND 8 (bags left over)  Award three marks only if 12 is clearly indicated as the number of bags for each helper and 8 is clearly indicated as the remainder	3	E3.3
4	Valid process to find the difference e.g. $973 - 575$	1 or	E3.2
	(£)398	2	E3.2

Total marks for Section A: 9
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## Mark scheme, Section B – Calculator

Question	Answer	Mark(s)	Content
1	Valid process to find the total cost of the website e.g. $10.9(0) \times 24$  261.6(0)  Correct £ symbol and money notation used i.e. two decimal places and not £261.60p Award this mark for correct £ symbol and money notation shown on an incorrect cost	1 or  2  1	E3.10  E3.10  E3.10
2a	(£)11	1	E3.11
2b	Correct answer from the check i.e. $(11 \times 24 =) 264$ Accept $(261.6(0) \div 11 =) 23.78\dots$ OR $(11 \times 20 =) 220$ OR $(262 \div 11 =) 23.81\dots$  Award this mark for a correct answer based on (£)10.90 incorrectly rounded i.e. 10 used rather than 11  Accept a valid check using 11 but based on an incorrect calculation in question 1 e.g. $11 \div 24$	1	E3.5
3	No AND $\frac{1}{5}$ OR No AND one fifth OR No AND 150 (tickets) OR No AND 60 (tickets difference) OR No AND 270 (tickets if 90 tickets were $\frac{1}{3}$ ) OR No AND 180 (tickets difference)	1	E3.7
4	Indicates Tent D and no other	1	E3.21

Question	Answer	Mark(s)	Content
5	Correct values from the graph i.e. 640 (people) AND 280 (people) OR Valid process using 1 correct value from the graph e.g. 620 + 280	1 or	E3.22
	Valid process using both correct values from the graph e.g. 640 + 280 OR 900 – 640 AND 280 OR 900 – 280 AND 640	2 or	E3.22
	Yes AND 920 (people) OR Yes AND 260 (people) AND 280 OR Yes AND 620 (people) AND 640 OR Yes AND 20 (people difference)	3	E3.22
6	Indicates (shape) D and no other	1	E3.19
7	Correct weight i.e. 125 (g) OR Valid process to find the difference between the total weight of fruit needed and the weight of the extra fruit required e.g. 500 – 425	1 or	E3.14
	Valid process to confirm the weight of fruit needed e.g. 500 (g) – 125 OR 125 + 425 AND 500 (g) OR 500 (g) – 425 AND 125	2 or	E3.16
	No AND 375 (g) OR No AND 50 (g difference) OR No AND 75 (g) and 125 (g) No AND 550 (g) AND 500 (g)  Accept equivalents in kg. Working must be shown in consistent units	3	E3.16

Question	Answer	Mark(s)	Content																				
8	<p>Designs a table structure with suitable column headings, e.g. 'Name', 'Food', 'Parking' and 'Bins' OR 'Time', 'Amir', 'Sam' and 'Corey' OR 'Job', '2 pm', '6 pm', '10 pm' and correct values e.g.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="4">(Jobs)</th> </tr> <tr> <th>Name</th> <th>Food</th> <th>Parking</th> <th>Bins</th> </tr> </thead> <tbody> <tr> <td>Amir</td> <td>6 pm</td> <td>10 pm</td> <td>2 pm</td> </tr> <tr> <td>Corey</td> <td>10 pm</td> <td>2 pm</td> <td>6 pm</td> </tr> <tr> <td>Sam</td> <td>2 pm</td> <td>6 pm</td> <td>10 pm</td> </tr> </tbody> </table> <p>Data headings may be shown in a row or a column.  Accept any understandable spelling for names and/or jobs. Times must be presented correctly  Each item of data must correspond correctly with row and column headings  Accept table without borders</p>	(Jobs)				Name	Food	Parking	Bins	Amir	6 pm	10 pm	2 pm	Corey	10 pm	2 pm	6 pm	Sam	2 pm	6 pm	10 pm	1	E3.23
(Jobs)																							
Name	Food	Parking	Bins																				
Amir	6 pm	10 pm	2 pm																				
Corey	10 pm	2 pm	6 pm																				
Sam	2 pm	6 pm	10 pm																				
9	1.35 (m)	1	E3.9																				
10	Indicates one full turn and no other	1	E3.20																				
11	Indicates 1.3 (m) and no other	1	E3.8																				
12	Valid process to find the total number of tickets e.g. 289 + 136  425 (tickets)	1 or  2	E3.2  E3.2																				
13	Indicates (toilet) D and no other	1	E3.21																				
14	Indicates 11:15 pm and no other	1	E3.12																				
15	180 (T-shirts)	1	E3.21																				
16	7 (litres)	1	E3.14																				
17	Indicates Photo C OR 820 and no other	1	E3.1																				
18	Use a suitable scale i.e. a scale that allows 40 AND 100 AND 160 to be indicated at the correct positions  Uses a suitable scale i.e. a scale that allows 40 AND 100 AND 160 to be indicated at the correct positions AND draws correct plots in the correct positions (i.e. above the relevant category labels) to show 40 (tickets bought on the same day) 160 (up to 1 week before) 100 (more than 1 week before) Accept clear points or lines indicating the correct values Bar chart must occupy at least half of the grid	1 or  2	E3.23  E3.23																				

Total marks for Section B: 27

**Total marks for assessment: 36**

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