

## **Functional Skills Certificate**

# **Functional Mathematics (Pilot) 9305**

## **Level 1, Section A (Functionality) and Section B (Competency)**

# **Mark Scheme**

*2009 examination - January series*

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of candidates' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

Further copies of this Mark Scheme are available to download from the AQA Website: [www.aqa.org.uk](http://www.aqa.org.uk)

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*Dr Michael Cresswell*, Director General.

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## Glossary for Mark Schemes

GCSE examinations are marked in such a way as to award positive achievement wherever possible. Thus, for GCSE Mathematics papers, marks are awarded under various categories.

- M** Method marks are awarded for a correct method which could lead to a correct answer.
- A** Accuracy marks are awarded when following on from a correct method. It is not necessary to always see the method. This can be implied.
- B** Marks awarded independent of method.
- D** Marks awarded independent of method for correct use of data sheet.
- M dep** A method mark dependent on a previous method mark being awarded.
- B dep** A mark that can only be awarded if a previous independent mark has been awarded.
- ft** Follow through marks. Marks awarded following a mistake in an earlier step.
- SC** Special case. Marks awarded within the scheme for a common misinterpretation which has some mathematical worth.
- oe** Or equivalent. Accept answers that are equivalent.  
eg, accept 0.5 as well as  $\frac{1}{2}$

**Section A: Level 1 (Functionality Test)**

<b>Q</b>	<b>Answer</b>	<b>Mark</b>	<b>Comments</b>
<b>1(a)</b>	19(92)	B1	
<b>1(b)</b>	$32 \times 25$	M1	
	800	A1	
<b>1(c)</b>	$110 \div 25$ or 4.4 or 4 rem 10 or 4 and a bit	M1	$4 \times 25 = (100)$ or $5 \times 25 = (125)$
	5	A1	
<b>1(d)</b>	$10.25 + 20$ mins + 30 mins	M1	
	11.15	A1	
<b>1(e)</b>	1.50 or 0.80/80p seen	M1	Alternative: $15 \times 2 + 8$ or 38
	$1.50 \times 2 + 0.80$	M1	$38 \times 0.1$ or $38 \div 10$
	3.80	A1	SC2 For 34.20 or 3.80 seen then taken from 38
<b>2(a)</b>	31	D1	or 31.00
<b>2(b)</b>	All four heights correct	B2	B1 For 2 or 3 heights correct
<b>2(c)</b>	$2 \times 2 \times 40$ or 160	M1	Alternative: $80 + 70$ or 150
	$2 \times 2 \times 35$ or 140	M1	Their $150 \times 2$
	$4 \times 28$ or 112	M1	$4 \times 28$ or 112
	(No) 412	A1	
<b>3(a)</b>	2	B1	
<b>3(b)</b>	$164.7 - 6$ or sight of 6	M1	Alternative: sight of 6 or 4.7
	(Yes) 158.7 is less than 160	A1	(Yes) 4.7 is less than 6
<b>3(c)</b>	4 drinks	B1	
	Cleaning teeth 6(.0)	B1	
	Flushing toilet 45(.0)	B1	
<b>3(d)</b>	$80 - 20$ or 20 seen	M1	
	60	A1	

**Section B: Level 1 (Competency)**

<b>Q</b>	<b>Answer</b>	<b>Mark</b>	<b>Comments</b>
<b>4</b>	7016	B1	
<b>5</b>	$\frac{7}{8}$	B1	
<b>6</b>	3	B1	
<b>7</b>	450	B1	
<b>8</b>	150	B1	
<b>9</b>	-9 circled or indicated	B1	
<b>10</b>	2.5	B1	
<b>11</b>	$\frac{7}{8}$ circled or indicated	B1	
<b>12</b>	7.01	B1	
<b>13</b>	Rectangle	B1	
<b>14</b>	36 800	B1	
<b>15</b>	8, 5, 4, 3	B1	All four completed
<b>16</b>	138	B1	
<b>17</b>	84	B1	
<b>18</b>	Apple and orange	B1	Must have both answers, either order and no others
<b>19</b>	(0).9	B1	
<b>20</b>	65	B1	or 65.00
<b>21</b>	22.84	B1	
<b>22</b>	240	B1	
<b>23</b>	6	B1	