

### Long Multiplication Mark Scheme

<b>1</b>	$  \begin{array}{r}  256 \\  59 \times \\  \hline  2304 \\  12800 \\  \hline  15104  \end{array}  $	<p>[2] 1 mark for correct rows, splitting up the calculation into <math>50 \times 256</math> and <math>9 \times 256</math> to get correct final answer.</p>
<b>2</b>	$  \begin{array}{r}  127 \\  88 \times \\  \hline  1016 \\  10160 \\  \hline  11176  \end{array}  $	<p>[2] 1 mark for correct rows, splitting up the calculation into <math>8 \times 127</math> and <math>80 \times 127</math> to get correct final answer.</p>
<b>3</b>	$  \begin{array}{r}  12.6 \\  41 \times \\  \hline  12.6 \\  504 \\  \hline  516.6  \end{array}  $	<p>[2] 1 mark for correct rows, splitting up the calculation into <math>1 \times 12.6</math> and <math>40 \times 12.6</math> to get correct final answer.</p>
<b>4</b>	$  \begin{array}{r}  6.43 \\  94 \times \\  \hline  24.00 \\  1.60 \\  0.12 \\  54.00 \\  3.60 \\  0.27 \\  \hline  604.42  \end{array}  $	<p>[2] 1 mark for first 3 rows. 1 mark for final answer.</p>

Turn over ►

5	$  \begin{array}{r}  4.65 \\  29 \times \\  \hline  41.85 \\  93.00 \\  \hline  134.85  \end{array}  $	<p>[3] 1 mark for each correct row</p> <p>Alternatively, decimals could be included in a later step or just with the final sum.</p>
6	$\pounds 1.25 + \pounds 0.90 + \pounds 0.99 = \pounds 3.14$	[1] Finding total cost per student
	$  \begin{array}{r}  3.14 \\  325 \times \\  \hline  15.7 \\  62.8 \\  942 \\  \hline  1020.50  \end{array}  $	[2] Correct calculations
7(a)	$  \begin{array}{r}  17.4 \\  36 \times \\  \hline  104.4 \\  522.0 \\  \hline  626.4 \text{ km}  \end{array}  \qquad  \begin{array}{r}  20.4 \\  36 \times \\  \hline  122.4 \\  612.0 \\  \hline  734.4 \text{ km}  \end{array}  $	[3] 1 mark for each correct row
7(b)	The Ducato drives furthest: $734.4 > 626.4$	[1] For correct choice
	$734.4 - 626.4 = 108 \text{ km}$ The Ducato drives 108 km further on 36 litres of petrol.	[1] For calculation

END