M1.(a) $x+y=180$

$$
\begin{aligned}
& \text { oe } \\
& y=180-x \\
& \text { or } x=180-y \\
& \text { or } 2 x+2 y=360
\end{aligned}
$$

(b) $y=1.5 x$

$$
\begin{aligned}
& \text { oe } \\
& 2 y=3 x \\
& \text { or } y=\frac{3}{2} x \\
& \text { or } x=\frac{2}{3} y \\
& \text { or } \frac{x}{y}=\frac{2}{3} \\
& \text { or } \frac{y}{x}=\frac{3}{2}
\end{aligned}
$$

M2.(a) $4 \times 0.5$ or $4 \times 50$ or $200(p)$ or $(£) 2$
$6+4 \times 0.5$ or 8 or $(£) 6+(£) 2$
or (£)6: (£)2
$8 \div 5(=1.6)$
Juice $=\frac{1}{5}$ and Lemonade $=\frac{4}{5}$
200 ml of juice and 800 ml of lemonade
$\frac{1}{5} \times 6$ and $\frac{4}{5} \times 0.5$
Allow mixture of unitsAllow mixture of units eg $1.2+40$ (= 1.60)

## Alternative method 2

$$
\begin{aligned}
& \frac{1}{5} \times 6=1.2 \text { or } \frac{1}{5} \times 6(00)=120 \\
& \text { or } \\
& \frac{4}{5} \times 0.5=0.4 \text { or } \frac{4}{5} \times 0.5 \text { or } 50=40 \\
& \text { oe } \\
& \quad \begin{array}{l}
\text { Must see calculation } \\
\text { Allow mixture of units }
\end{array}
\end{aligned}
$$

$$
\begin{aligned}
& \frac{1}{5} \times 6=1.2 \text { or } \frac{1}{5} \times 6(00)=120 \\
& \text { and } \\
& \frac{4}{5} \times 0.5=0.4 \text { or } \frac{4}{5} \times 0.5 \text { or } 50=40 \\
& \text { oe } \\
& \quad \begin{array}{l}
\text { Must see calculation } \\
\text { Allow mixture of units }
\end{array}
\end{aligned}
$$

$$
1.2+0.4(=1.6) \text { or } 120+40(=160)
$$

(b) 40 seen or $2 \div 1.6$ or $200 \div 160$
0.4 or 1.25

M3. $\quad($ Billie $=£) 8$
$\left(\frac{2}{3}=\right) 8$
their $8 \div 2 \times 3(=12)$
oe
M1
their $12 \div 4 \times 5$
oe

15

M4. (a) $\frac{392}{7} \times 2$ oe

112

$$
\text { SC1 } 504
$$

(b) $\frac{8}{11}$ or $0.72 \ldots$ or 0.73
oe or $72(\ldots) \%$ or $73 \%$

