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

 $y = 180 - x$
 $or x = 180 - y$
 $or 2x + 2y = 360$

(b)
$$y = 1.5x$$

 $2y = 3x$
 $y = \frac{3}{2}x$
 $y = \frac{3}{2}x$
 $y = \frac{2}{3}y$
 $y = \frac{2}{3}y$
 $y = \frac{2}{3}$
 $y = \frac{2}{3}$

B1	
	[2]

M1

B1

M2.(a) 4×0.5 or 4×50 or 200(p) or (£)2

$6 + 4 \times 0.5$ or 8 or (£) $6 + (£)2$	
or (£)6 : (£)2	M1dep

Alternative method 1

Juice =
$$\frac{1}{5}$$
 and Lemonade = $\frac{4}{5}$
200ml of juice and 800ml of lemonade

 $\frac{1}{5} \times 6 \text{ and } \frac{4}{5} \times 0.5$ Allow mixture of units

A1

M1dep

M1

Alternative method 2

 $\frac{1}{5} \times 6 = 1.2 \text{ or } \frac{1}{5} \times 6(00) = 120$ or 4 4

$$\overline{5} \times 0.5 = 0.4$$
 or $\overline{5} \times 0.5$ or $50 = 40$
oe
Must see calculation
Allow mixture of units

 $\frac{1}{5} \times 6 = 1.2 \text{ or } \frac{1}{5} \times 6(00) = 120$

and

$$\frac{4}{5} \times 0.5 = 0.4 \text{ or } \frac{4}{5} \times 0.5 \text{ or } 50 = 40$$

oe
Must see calculation
Allow mixture of units

M1dep

M1

Allow mixture of units eg 1.2 + 40 (= 1.60) A1 40 seen or 2 ÷ 1.6 or 200 ÷ 160 (b) 0.4 or 1.25 M125% or 20% 20% is allowed as this is defined a 'profit margin' A1 [5] (Billie = £)8M3. $\left(\frac{2}{3}\right) = 8$ **B1** their 8 ÷ 2 × 3 (= 12) oe **M1** their $12 \div 4 \times 5$ oe **M1** 15 A1 [4]



M1

112 SC1 504 (b) $\frac{8}{11}$ or 0.72... or 0.73 oe or 72(...)% or 73% B1

[3]