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

oe

$$y = 180 - x$$

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

В1

(b)
$$y = 1.5x$$

oe

$$2y = 3x$$

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

В1

[2]

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

М1

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

M1dep

A1

Alternative method 1

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

М1

$$\frac{1}{5} \times 6$$
 and $\frac{4}{5} \times 0.5$

Allow mixture of units

M1dep

A1

Alternative method 2

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

or

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

oe

Must see calculation

Allow mixture of units

М1

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

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

Allow mixture of units eg 1.2 + 40 (= 1.60)

A1

М1

25% or 20%

20% is allowed as this is defined a 'profit margin'

A1 [5]

M3. (Billie = £)8

$$\left(\frac{2}{3}\right) = 8$$

В1

М1

their
$$12 \div 4 \times 5$$
 oe

М1

15

A1

[4]

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

М1

112

SC1 504

A1

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

В1

[3]