



1 (g) let number =  $2x$   
acc. to con.

$$\frac{5}{2} \times 2x - 7 = 23$$

$$\Rightarrow 5x = 23 + 7$$

$$\Rightarrow 5x = 30$$

$$\Rightarrow x = \frac{30}{5}$$

$$\Rightarrow x = 6$$

$$\therefore \text{number} = 2 \times 6 = 12$$

2 (a) let lowest score =  $x$   
acc. to con.

$$2x + 7 = 87$$

$$\Rightarrow 2x = 87 - 7$$

$$\Rightarrow 2x = 80$$

$$\Rightarrow x = \frac{80}{2}$$

$$\Rightarrow x = 40$$

$\therefore$  lowest score = 40

(b) let each base angle =  $x$ '

$$40 + x + x = 180$$

[angle sum property of  $\Delta$ ]

$$\Rightarrow 2x = 180 - 40$$

$$\Rightarrow x = \frac{140}{2}$$

$\therefore$  each base angle =  $70^\circ$

