## Revision Home assignment
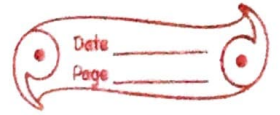
1.i) Sum of $20°$, $70°$ and $90°$ is $180°$

Hence, it is possible.

ii) Sum of $40°$, $130°$ and $20°$ is $190°$

Hence, it is not possible

iii) $60°$, $60°$ and $50°$ sum is $170°$

Therefore it is not possible

iv) $125°$, $40°$ and $15°$ sum is $180°$

Therefore it is possible

2. Since the three angles of a triangle are equal and their sum is $180°$

Therefore each angle will be $\frac{180°}{3} = 60°$

3. Since the sum of angles of a triangle is $180°$.

$\angle A + \angle B + \angle C = 180°$

$\Rightarrow 45° + 75° + \angle C = 180°$

$\Rightarrow 120° + \angle C = 180°$

$\Rightarrow \angle C = 180° - 120° = 60°$