23) $6x + 80^\circ + 123^\circ + 85^\circ = 360^\circ$

$= 6x + 288^\circ = 360^\circ$

$6x = 360^\circ - 288 = 72^\circ$

$6x = 72^\circ$

$x = \frac{72^\circ}{6} = 12^\circ$

$AOB^\circ = 60^\circ$

$BOC = 12^\circ$

24) $2y + 2y^\circ + 2\frac{1}{2}y^\circ + \frac{5}{2}y^\circ = 360^\circ$

$4y^\circ + \frac{5y^\circ + 7}{2} = 360^\circ$ $\quad 4y = 354^\circ$

$4y + \frac{12}{2} = 360^\circ$ $\quad y = \frac{354^\circ}{4} =$

$4y + 6 = 360^\circ$ $\quad y = 360^\circ$

AOB = 126°

BOC = 72°

COD = 72°

DOA = 90°

25) $x = 45 + 90^\circ$

$= 135^\circ$ $\quad x = 180^\circ - 135^\circ$

$x = 45^\circ$

2) $x + 5x + 6x = 180^\circ \quad = 12x = 180^\circ$

$$x = \frac{180^\circ}{12} = 15^\circ$$

But $x = 3a$

$3a = 15 \quad \Rightarrow a = \frac{15^\circ}{3} = 5^\circ$

$a = 5^\circ$