A father is 30 years older than his son. In 12 years, the man will be three times as old as his son. Find their present ages.

ANSWER:

Let the age of the son and the father be x yrs and $(x + 30)$ yrs, respectively.

According to the question, we have:

$3 \times (x + 12) = x + 30 + 12$

$\Rightarrow 3x + 36 = x + 42$

$\Rightarrow 3x - x = 42 - 36$

$\Rightarrow 2x = 6$

$\Rightarrow x = 3$

$\therefore$ Son's age $= 3$ yrs

Father's age $= (x + 30)$ yrs $= (3 + 30)$ yrs

$= 33$ yrs