7 Business A made a $£ 5000$ profit during its first year.
In each subsequent year, the profit increased by $£ 1500$ so that the profit was $£ 6500$ during the second year, $£ 8000$ during the third year and so on.

Business B made a $£ 5000$ profit during its first year.
In each subsequent year, the profit was $90 \%$ of the previous year's profit.
(a) Find an expression for the total profit made by business A during the first $n$ years. Give your answer in its simplest form.
(b) Find an expression for the total profit made by business B during the first $n$ years. Give your answer in its simplest form.
(c) Find how many years it will take for the total profit of business A to reach $£ 385000$.
(d) Comment on the profits made by each business in the long term.

