2.

2. (1) Basis for the Revenue model is a simple multiplication:

Revenue = Price×Quantity = $(-\frac{4}{5}t+204)$ × t = $204\,t - \frac{4\,t^2}{5}$

Notice the latter is a quadratic:
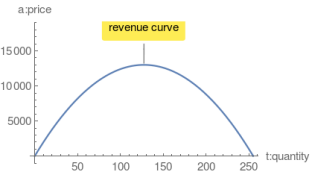
(2) Domain starts at 0 BritishPounds revenue up to t-intercept coordinate equal to twice the value of vertex of the Parabola:
255

(4) The maximum occurs at the vertex t-intercept coordinate:

$\frac{255}{2}$

or the amount 13005. BritishPounds .