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| Name:  Teacher : | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | Date:\_\_\_\_\_\_\_\_\_ |
|  | **Year 12 Essentials – Practical Application**  **Pool Design**  **Weighting 7% Due Date: \_\_\_\_\_\_\_\_\_\_\_\_** | **Mark \_\_\_\_\_\_\_\_\_** | |

Scenario

James has just bought a new house which doesn’t have a pool in the backyard and he would like one. His back yard is a rectangular shape 30m by 20m.

Task:

Your task is to design his backyard pool area. To work out the materials required and the cost to build his pool including the fencing and the paving around the pool.

You will need to apply the mathematical thinking process:

• interpret the task and gather the key information

• identify the mathematics which could help to complete the task

• analyse information and data from a variety of sources

• apply their existing mathematical knowledge and strategies to obtain a solution

• verify the reasonableness of the solution

• communicate findings in a systematic and concise manner.