

MATHEMATICS ITEM:

THEME: GEOMETRY AND MEASURES.

A certain NGO has 6000 pounds and wants to solve a water problem in your village. They wish to either construct a rectangular dam or a cylindrical dam on the community free land. The construction company advised them that $120,000m^3$ is enough for the community every month. The NGO can fund to either construct a rectangular dam of dimensions $100m \times 30m \times 50m$ and every $10,000m^2$ is constructed at a *shs* 1,500,000 or a cylindrical dam, each culvert of radius $7m$ and height $12m$ costs 250,000 *shs* and every 2 culverts are aligned at a cost of *shs* 100,000. The NGO is wondering which of the two options is cheaper.

Task.

As a mathematics student, help advise the NGO members accordingly if 1 pound is equivalent to 4500*shs*.

Support.

Culvert



dam



Topics: 1. Business arithmetic

2. nets, area and volume of 3D

3.Length and area

@tr.kabuzimaths.