

SURFACE AREA

Write a program to calculate the surface area of the following shapes: a square, a cube, a pyramid, and a cylinder. Ask the user which shape he would like to calculate the area for, and the dimensions that are needed for the calculation.

The formulæ for each shape follows.

- Area of a square : $width \times height$
- Area of a cube: $6 \times (length\ of\ a\ side)^2$
- Area of a pyramid: $\frac{1}{2}(base \times height) \times number\ of\ sides$
- Area of cylinder : $2\pi r(r + h)$

Skills Required: Sequence, Selection, Methods, Error Trapping