SURFACE AREAS AND VOLUMES OF CUBOIDS

BACKGROUND

Cuboidal objects are quite useful in our daily life and often we need to know their surface areas and volumes for different purposes. Sometimes, it appears that if there is an increase in the surface area of a cuboid, then its volume will also increase and vice-versa. The present project is a step towards knowing the truth about this statement.

OBJECTIVE

To explore the changes in behaviours of surface areas and volumes of cuboids with respect to each other.

DESCRIPTION

(A) Cuboids with equal volumes

Let us consider some cuboids with equal volumes, having the following dimensions:

(i) $l = 12$ cm, $b = 6$ cm and $h = 3$ cm

(ii) $l = 6$ cm, $b = 6$ cm and $h = 6$ cm

(iii) $l = 9$ cm, $b = 6$ cm and $h = 4$ cm

(iv) $l = 8$ cm, $b = 6$ cm and $h = 4.5$ cm.

Now, we calculate the surface area of each of the above cuboids, using the formula

surface area $= 2 (lb + bh + hl)$.

For (i), surface area $= 2 (12 \times 6 + 6 \times 3 + 3 \times 12)$ cm$^2 = 252$ cm^2

For (ii), surface area $= 2 (6 \times 6 + 6 \times 6 + 6 \times 6)$ cm$^2 = 216$ cm$^2 \rightarrow$ **Minimum**

For (iii), surface area $= 2 (9 \times 6 + 6 \times 4 + 4 \times 9)$ cm$^2 = 228$ cm^2

For (iv), surface area $= 2 (8 \times 6 + 6 \times 4.5 + 4.5 \times 8)$ cm$^2 = 222$ cm^2

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