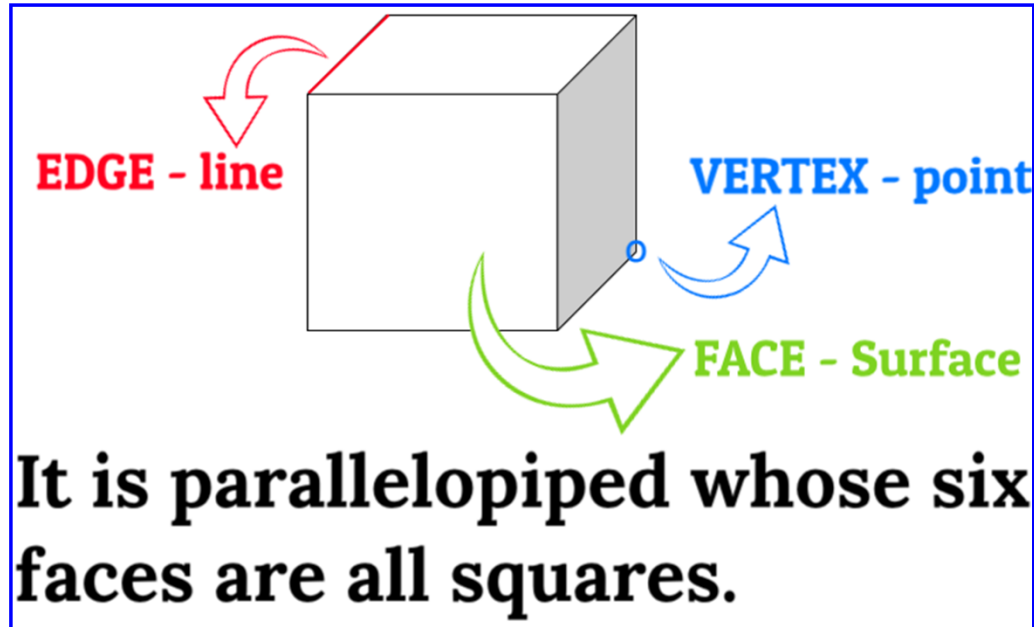


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EXAMPLE: Find the total surface area of a cube whose side is 2ft:

UNFOLD

front
2ft

side back side front

top

bottom

2ft

2ft

Surface Areas:

Top } $S = 2 \times 2$
Bottom } $S = 2^2$
Front }
Back }
Side }
Side }

$S_{\text{Total}} = 2^2 + 2^2 + 2^2 + 2^2 + 2^2 + 2^2 = 6(2)^2 = 6(4) = 24\text{ft}^2$



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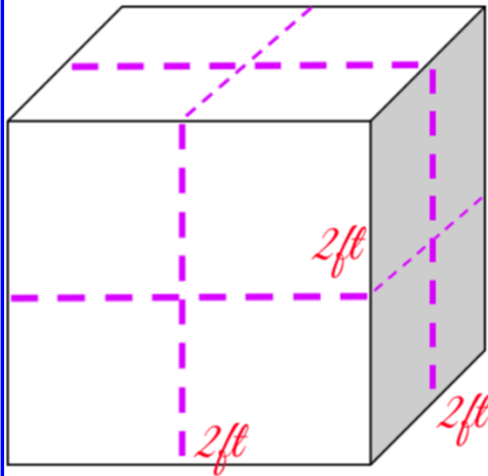
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EXAMPLE: Find the volume of a cube whose side is 2ft:



$$V = l \times l \times l = l^3$$
$$V = 2 \times 2 \times 2 = 2^3$$
$$V = \underline{8ft^3}$$



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