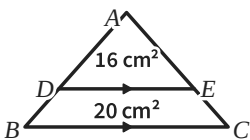
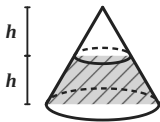
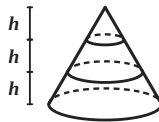
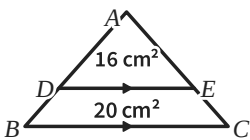
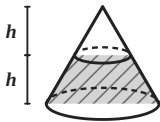
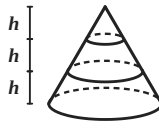


Similar Shapes: Area and Volume *ramp up*

a Surface areas A and $4A$. Small volume V . Find the large volume. _____	b Areas 20 cm^2 and 45 cm^2 . Small perimeter 12 cm . Find the large perimeter. _____	c Areas 10 cm^2 and 30 cm^2 . Find exactly the large side that matches 4 cm . _____	d Lengths in the ratio $2 : 3$ give areas 18 cm^2 apart. Find the small area. _____
e A to B : lengths $\times 2$. B to C : areas $\times 9$. Volumes A to C are $\times$ what? _____	f Surface areas are in the ratio $1 : 2$. Find the ratio of the volumes exactly. _____	g The volume scale factor is 2 . Find the area scale factor exactly. _____	h The volume increases by 33.1% . By what percentage do the lengths increase? _____
i Heights are $x\text{ cm}$ and $(x + 3)\text{ cm}$. Volumes are 8 cm^3 and 27 cm^3 . Find x . _____	j Find $AD : DB$  _____	k Find the volume ratio  _____	l Find the volume ratio  _____

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