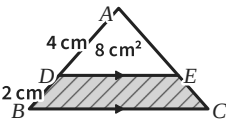
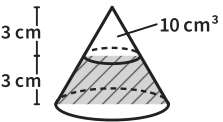
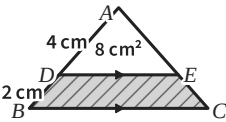
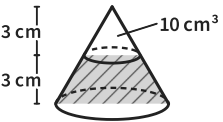


Similar Shapes: Area and Volume *ramp up*

a An area of 12 cm^2 is enlarged by scale factor 1.5. Find the new area. _____	b Small surface area 80 cm^2 . Heights 6 cm and 9 cm. Find the large surface area. _____	c Length scale factor 5. Large volume 500 cm^3 . Find the small volume. _____	d An area of 72 cm^2 is enlarged by scale factor $\frac{2}{3}$. Find the new area. _____
e Heights 10 cm and 15 cm. Small volume 400 cm^3 . Find the large volume. _____	f Areas are in the ratio 9 : 49. Find the ratio of the lengths. _____	g Volumes are in the ratio 27 : 64. Find the ratio of the surface areas. _____	h Volumes are 16 cm^3 and 54 cm^3 . The small height is 6 cm. Find the large height. _____
i Volumes 8 : 125. The small surface area is 12 cm^2 . Find the large one. _____	j The lengths increase by 20%. By what percentage does the area increase? _____	k Find the shaded area  _____	l Find the shaded volume  _____

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