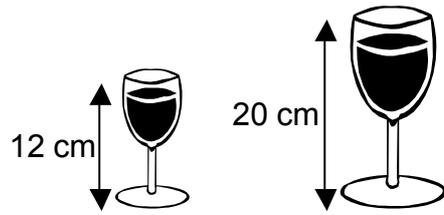


Similar Volumes

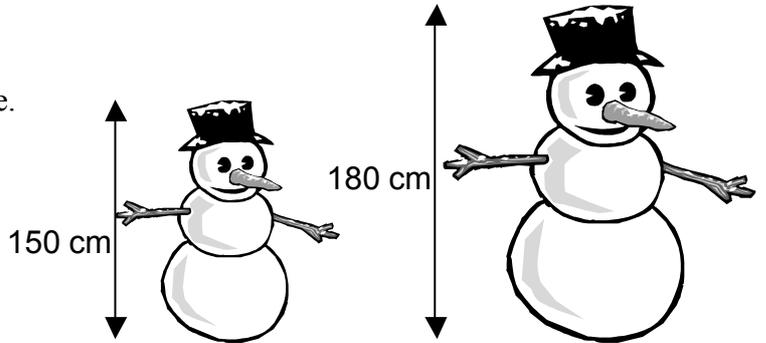
1. The wine glasses shown are similar in shape.
The smaller glass can hold 135 ml of wine.



How much wine can the larger glass hold?

2. Michael and Amanda both build snowmen.
The snowmen they build are similar in shape.

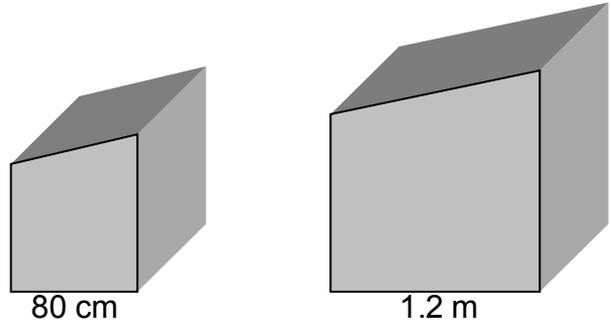
The volume of snow in Michael's snowman is $30\,000\text{ cm}^3$. His snowman is 150 cm tall.



Calculate the volume of snow in Amanda's snowman.

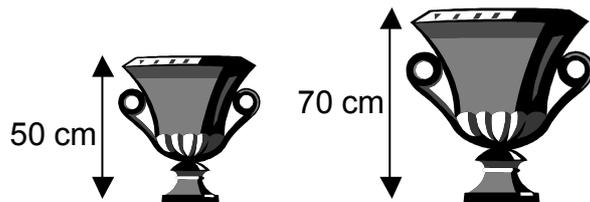
3. Two storage bins are similar in shape.
The larger bin has a volume of 1.8 m^3 .

Calculate the volume of the smaller bin.



4. Two porcelain vases are similar in shape.
The volume of the smaller vase is 1200 cm^3 .

Calculate the volume of the larger vase.



5. The pitchers shown opposite are similar.
The larger pitcher can hold 864 ml of liquid.

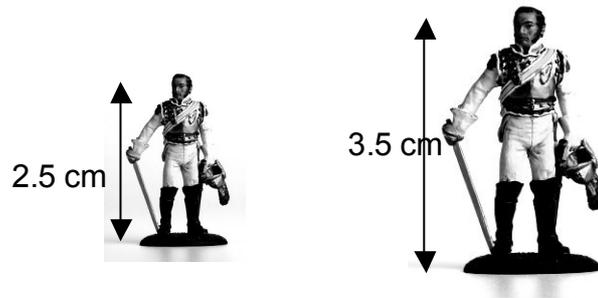
How much liquid can the smaller pitcher hold?



6. Die-cast metal figures come in different sizes, which are mathematically similar in shape. The cost of each figure depends on the volume of metal used to make the figure.

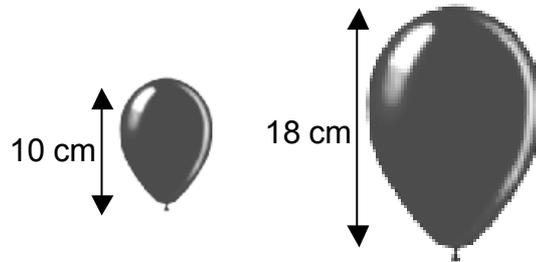
In the diagram opposite, the smaller figure costs £1.25.

Calculate the cost of the larger figure.



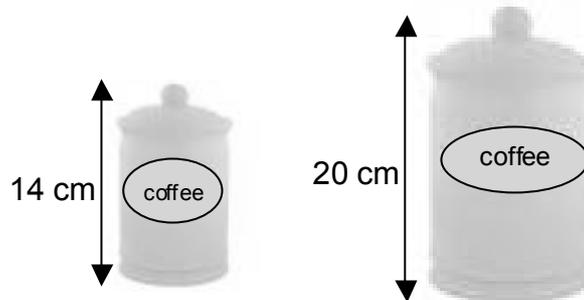
7. The balloons shown opposite are similar in shape. The larger balloon has a volume of 2187 cm^3 .

Calculate the volume of the smaller balloon.



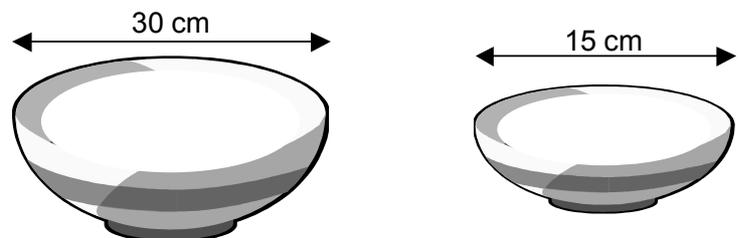
8. A company sell coffee storage jars in different sizes although each jar is mathematically similar in shape. The larger jar has a volume of 4000 cm^3 .

Find the volume of the smaller jar.



9. The diagram opposite shows a pair of similar fruit bowls. The smaller bowl has a volume of 1400 cm^3 .

Find the volume of the larger bowl.



10. The diagram shows two suitcases which are mathematically similar in shape. The cost of the suitcases depends on the volume of items the suitcase can hold.

The larger suitcase costs £25.60, find the cost of the smaller suitcase.

