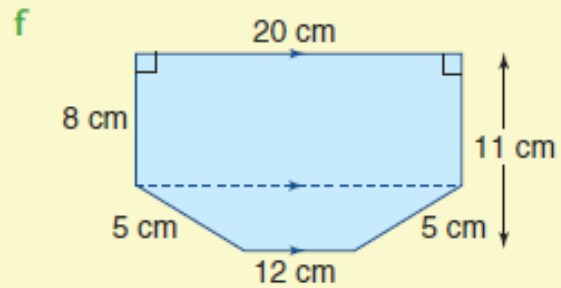
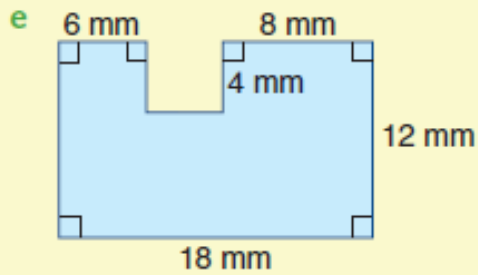
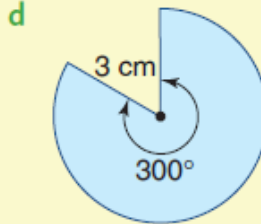
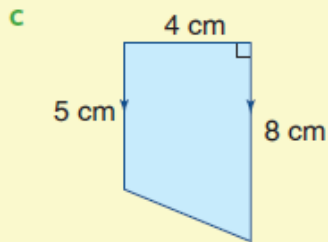
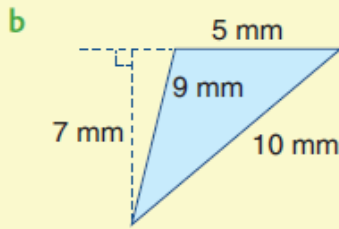
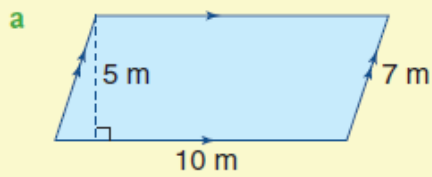
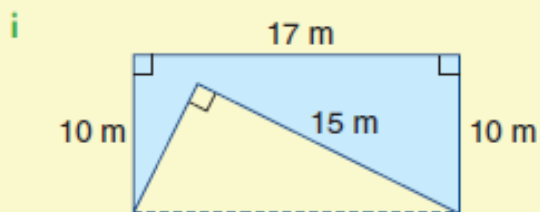
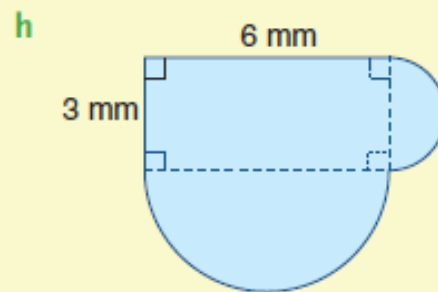
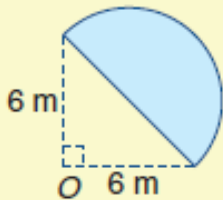


2 Find the perimeter of the following shapes (correct to two decimal places where necessary).

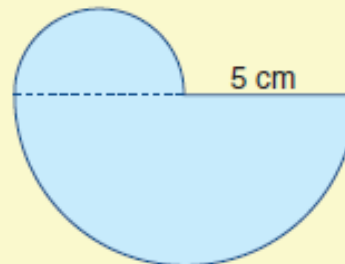
Note: you might need to use Pythagoras' theorem in some questions to work out missing sides.

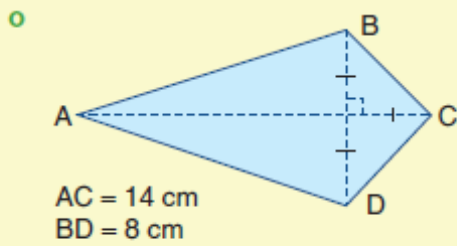
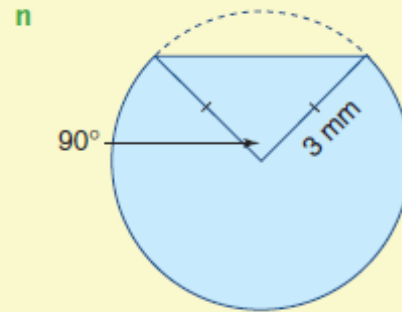
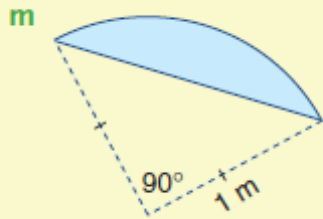
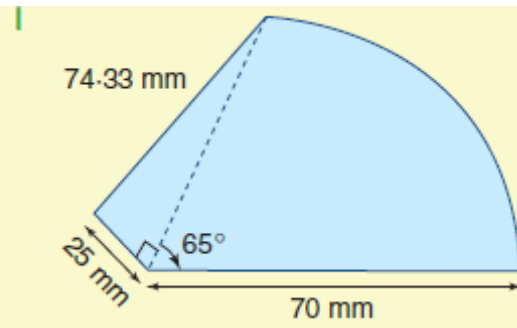
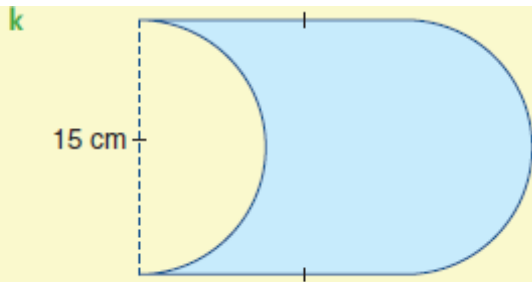


g Segment of circle centre O



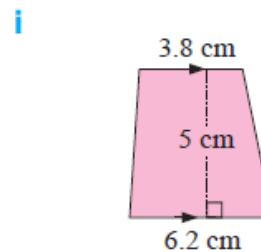
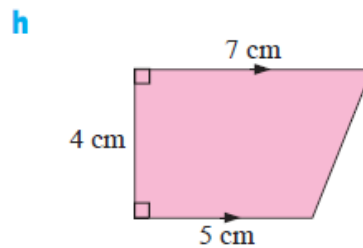
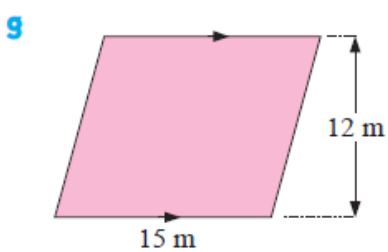
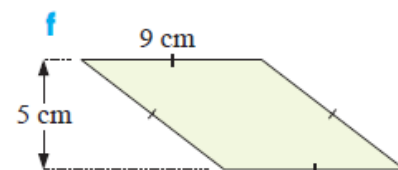
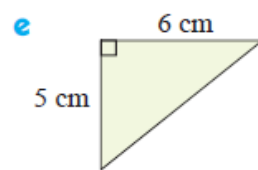
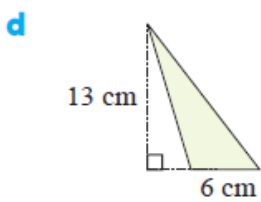
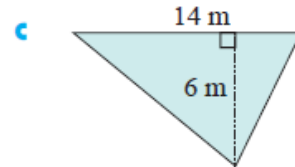
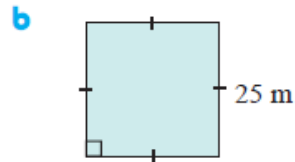
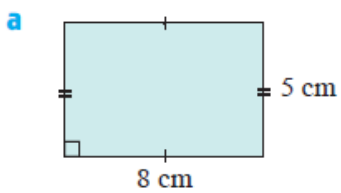
j 2 semi-circles make this shape





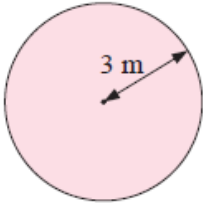
3 Find the area of the shapes in question 2 – find the shaded area where indicated.

1 Find the area of the shaded region:

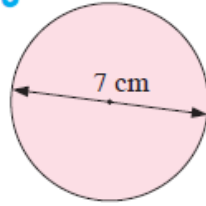


2 Find the area shaded:

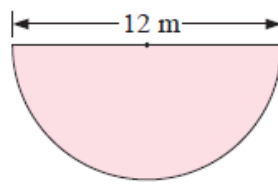
a



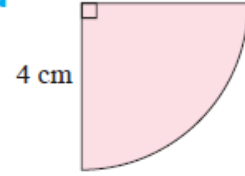
b



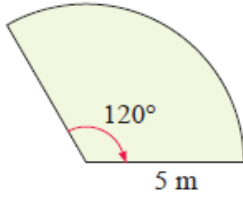
c



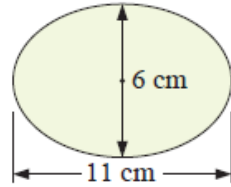
d



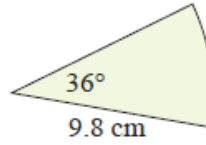
e



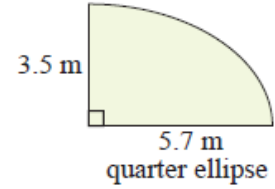
f



g

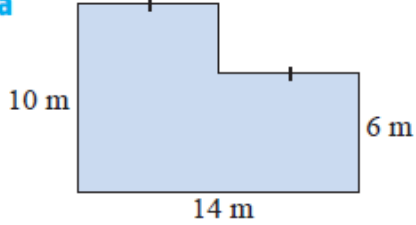


h

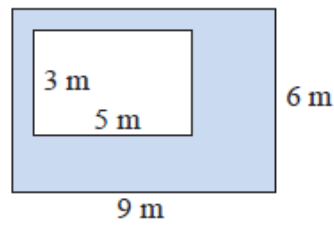


3 Find the area shaded:

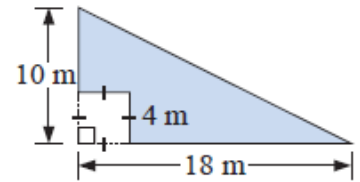
a



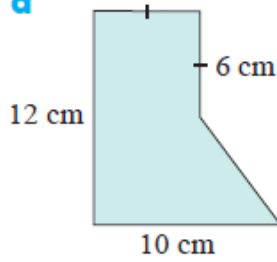
b



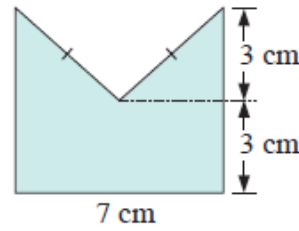
c



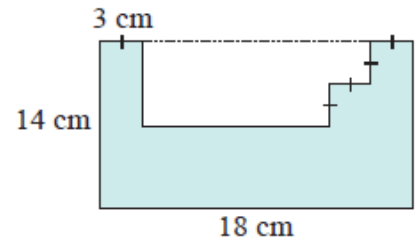
d



e

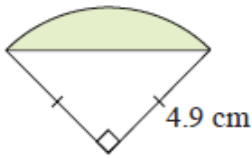


f

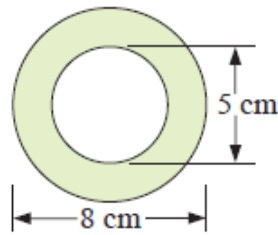


4 Find the area of the shaded regions, giving your answers correct to 2 decimal places:

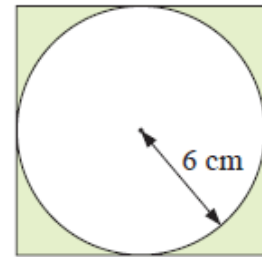
a



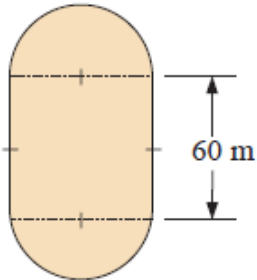
b



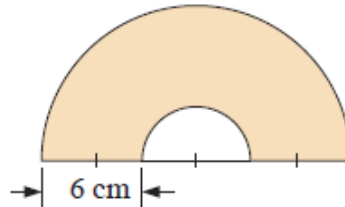
c



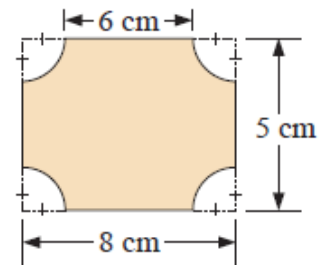
d



e

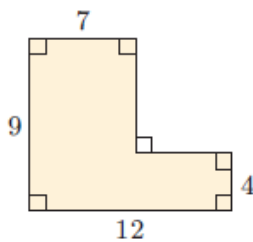


f

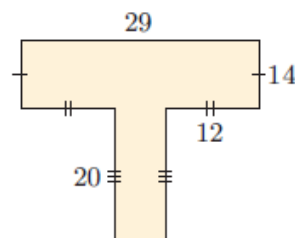


4 Calculate the area of the following composite shapes. All measurements are given in cm.

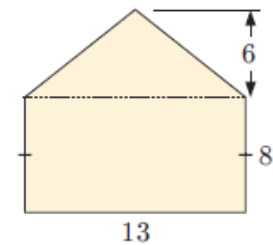
a



b

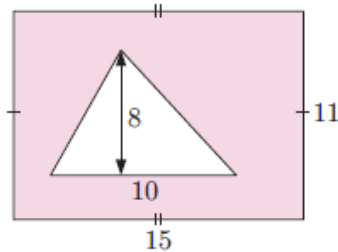


c

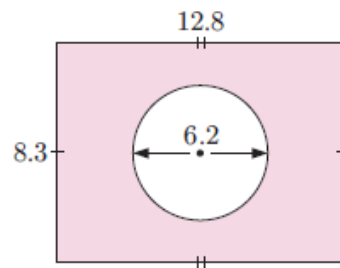


5 Calculate the area of the following shaded regions. All measurements are given in cm.

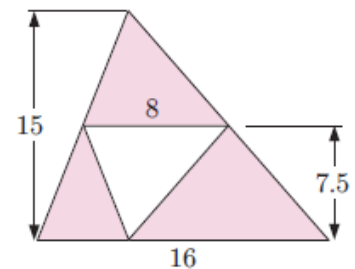
a



b

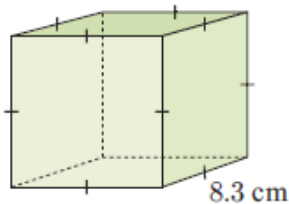


c

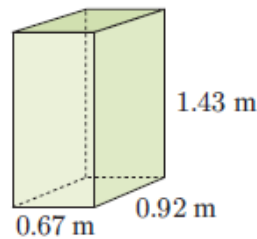


1 Find the total surface area of:

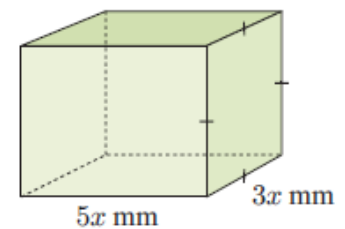
a



b

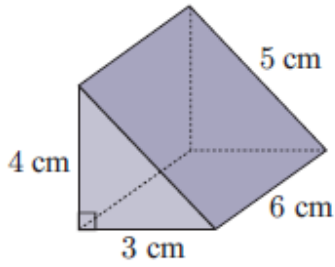


c

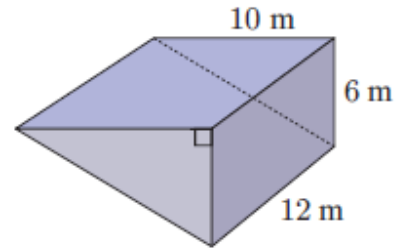


2 Find the total surface area of:

a



b



1 Find the surface area of a cube with sides:

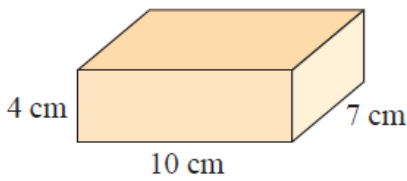
a 3 cm

b 4.5 cm

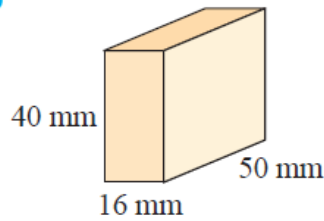
c 9.8 mm

2 Find the surface area of the following rectangular prisms:

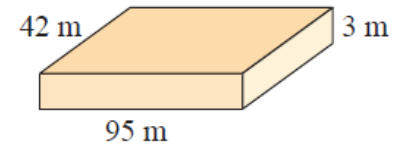
a



b

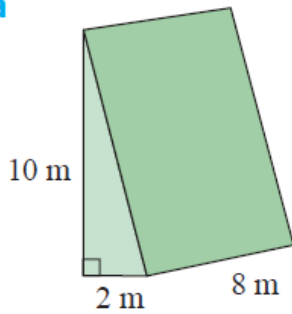


c

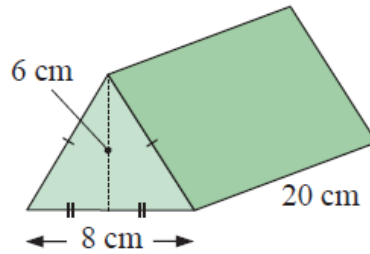


3 Find the surface area of the following triangular prisms:

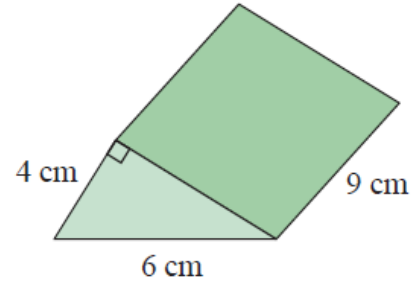
a



b

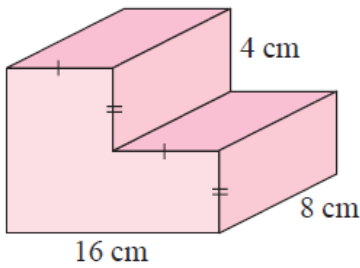


c

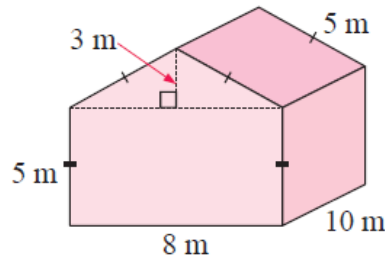


4 Find the surface area of the following prisms:

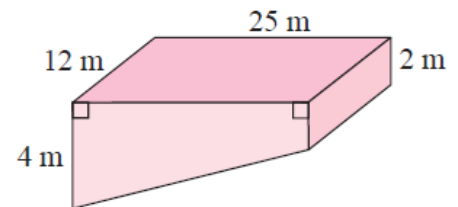
a



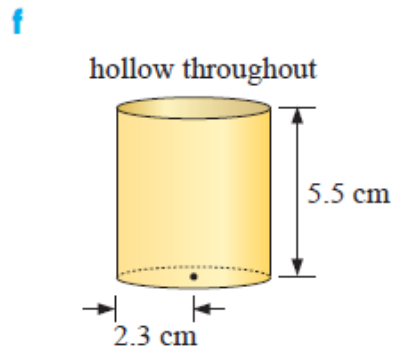
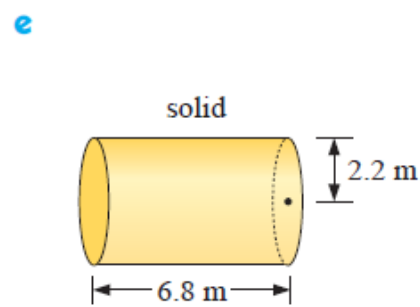
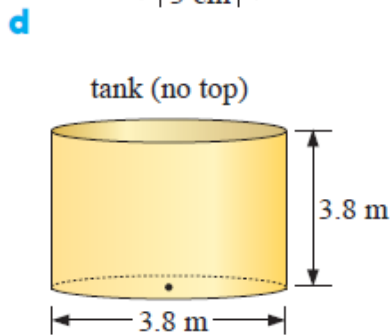
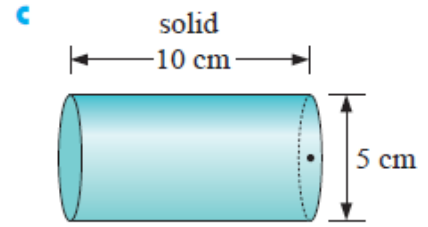
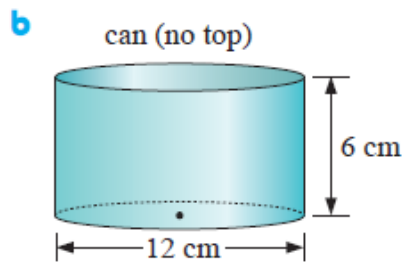
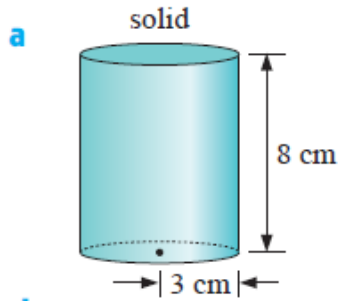
b



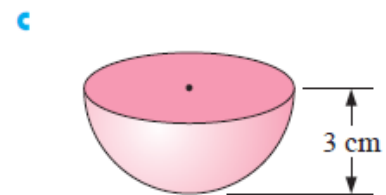
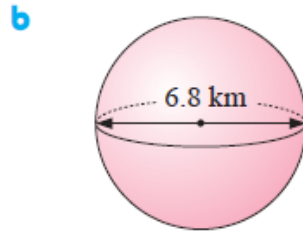
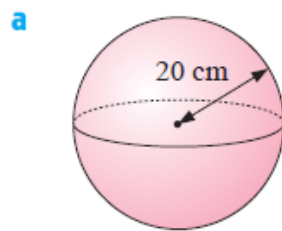
c



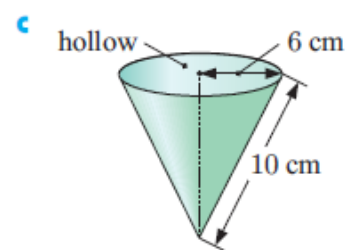
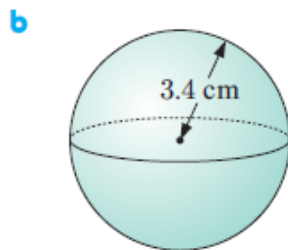
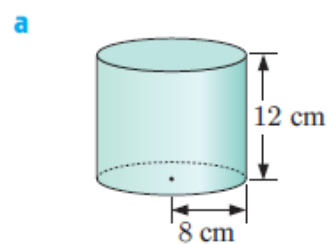
8 Find the outer surface area of the following:

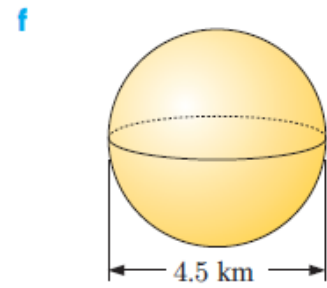
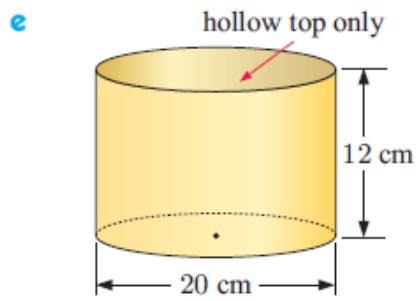
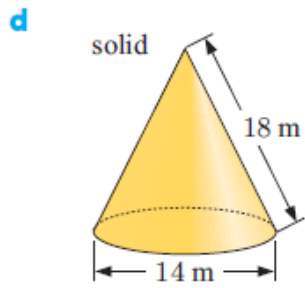


9 Find the total surface area of the following:

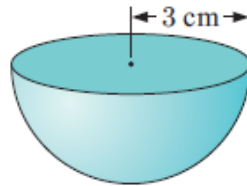


1 Find, correct to 1 decimal place, the outer surface area of the following:

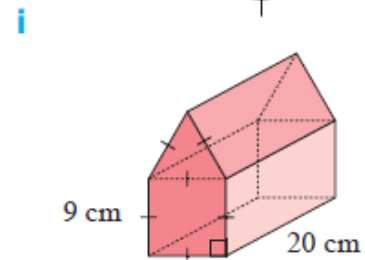
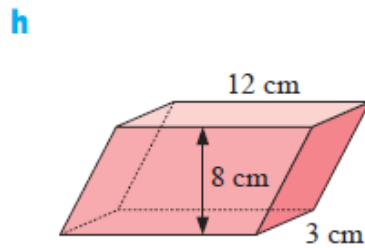
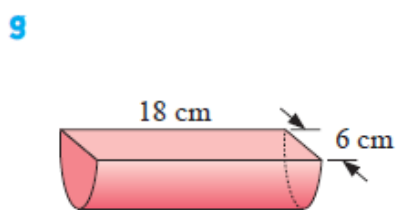
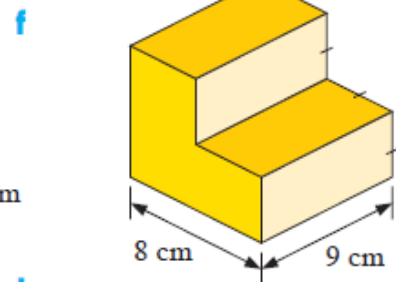
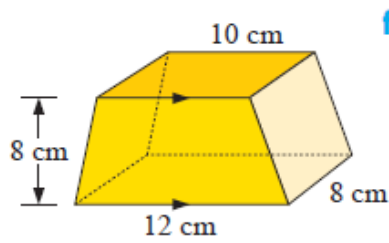
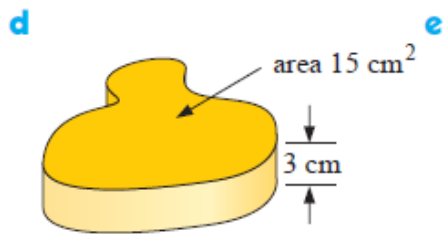
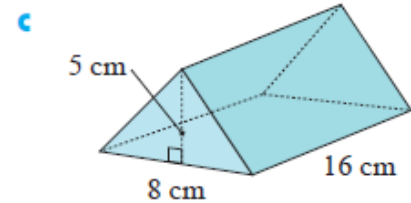
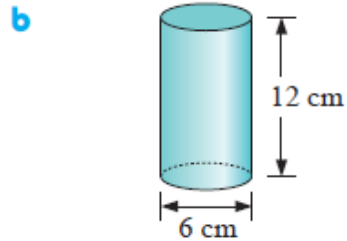
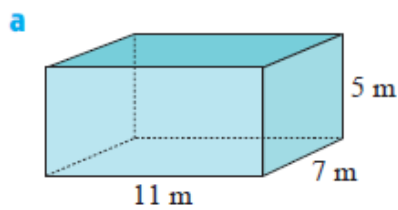




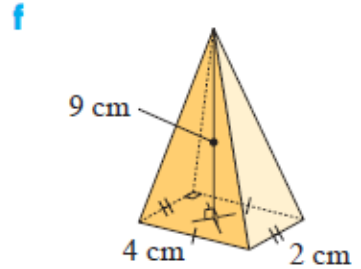
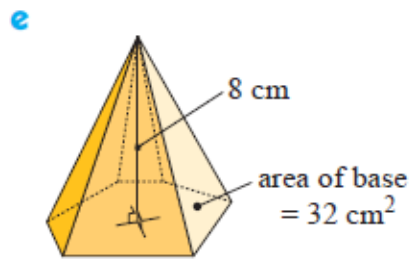
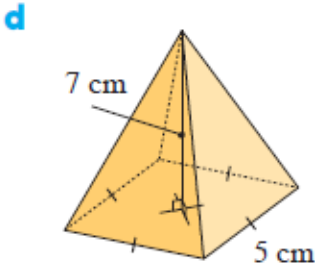
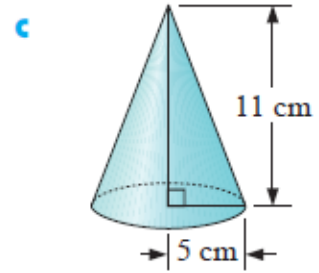
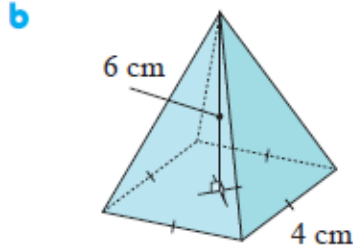
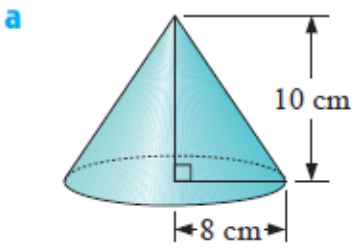
- 2** Find the total surface area of the solid hemisphere shown.



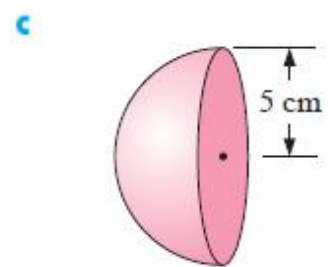
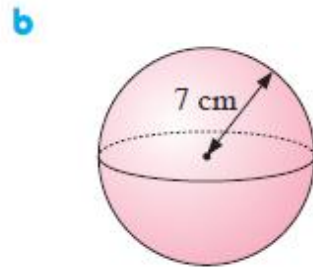
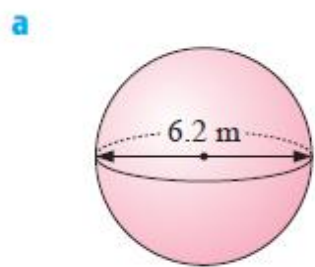
- 1** Find the volume of the following:



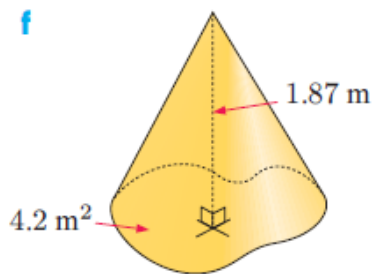
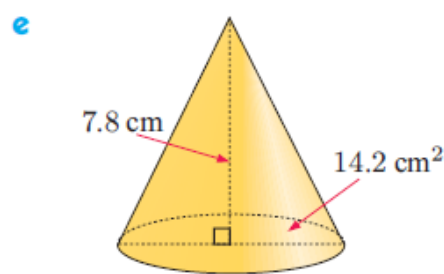
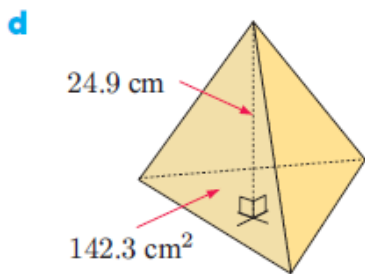
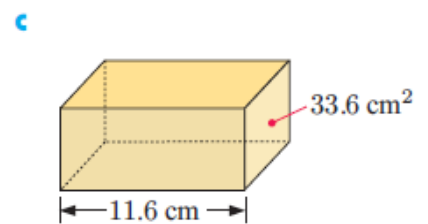
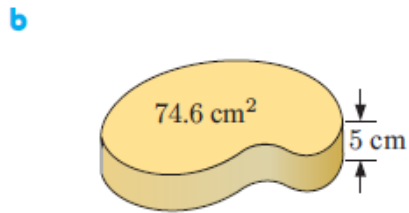
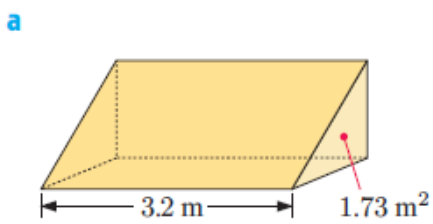
2 Find the volume of the following:



3 Find the volume of the following:

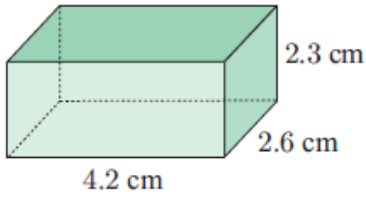


1 Calculate the volume of:

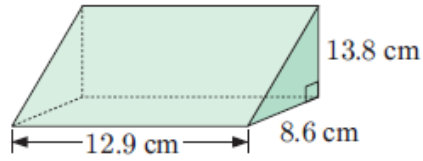


2 Find the volume of:

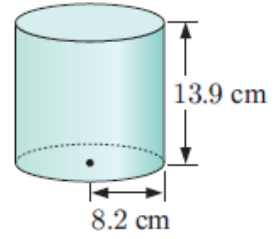
a



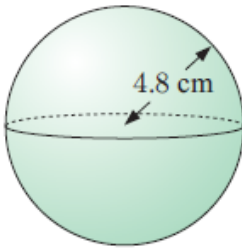
b



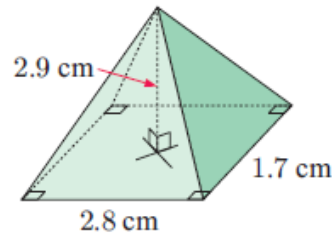
c



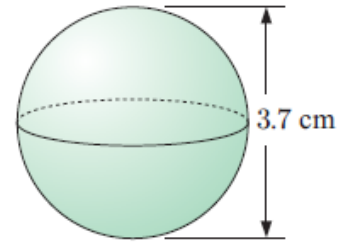
d



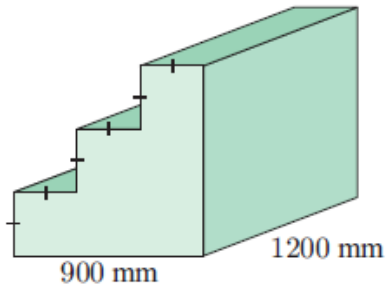
e



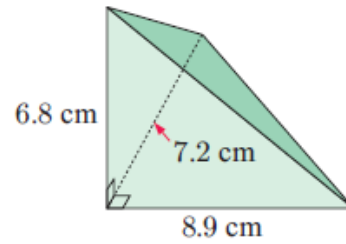
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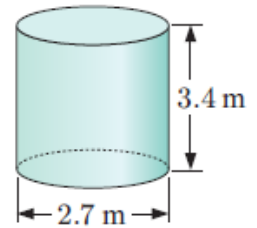
g



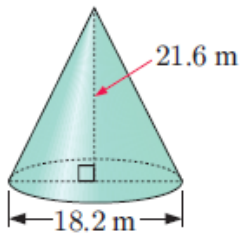
h



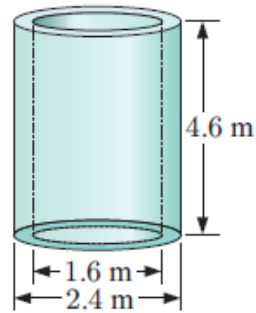
i



j



k



l

