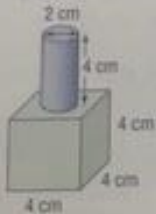


Practice

Check

3. Determine the surface area of each composite object. Give the answers to the nearest whole number.

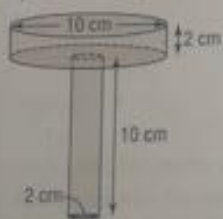
a) cylinder on a cube



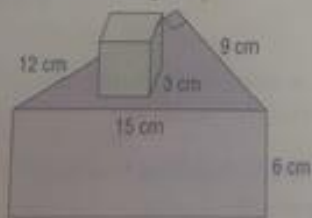
b) cylinder on a rectangular prism



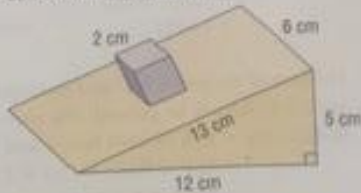
c) cylinder on a cylinder



d) cube on a triangular prism



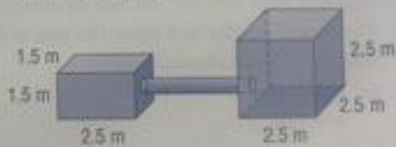
e) cube on a triangular prism



4. Determine the surface area of each composite object. Give the answers to the nearest tenth.

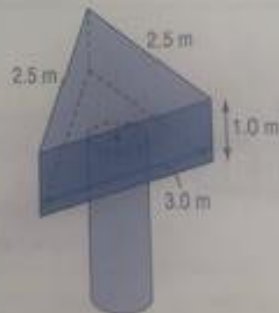


b) The cylinder is 3.5 m long with diameter 0.5 m.

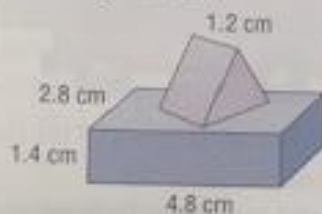


5. Determine the surface area of each composite object.

a) The cylinder is 2.5 m long with radius 0.5 m.



- b) The base of the triangular prism is an equilateral triangle with side length 2.8 cm.



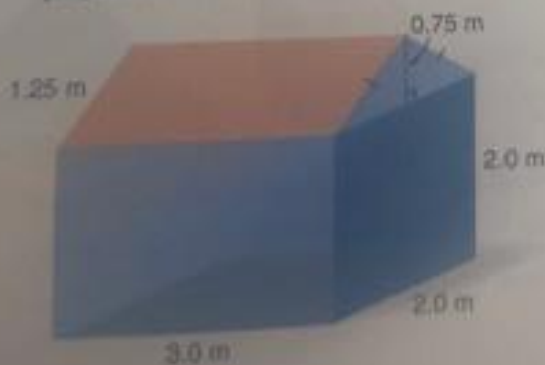
Apply

6. Here is the lamp stand from the top of page 33. The base of the lamp is a triangular prism with an equilateral triangle base. The surface of the stand is to be painted. What is the area that will be painted? Give the answer to the nearest whole number.



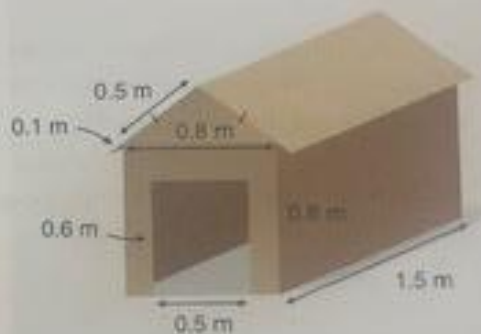
7. Assessment Focus

- a) A playhouse has the shape of a rectangular prism with a triangular prism roof. Determine the surface area of the playhouse.



- b) What are possible dimensions for a door and 2 windows? Explain how including these features will affect the surface area of the playhouse.
c) Determine the surface area of the playhouse not including its doors and windows.

8. Jemma has built this doghouse. The roof is a triangular prism with an isosceles triangle base. There is an overhang of 0.1 m. There is an opening for the doorway.



- a) Determine the surface area of the doghouse.
b) The doghouse is to be covered with 2 coats of wood stain. Wood stain can be bought in 1-L or 4-L cans. One litre of stain covers 6 m^2 . How many cans of either size are needed? Explain your thinking.
9. Each layer of a three-layer cake is a cylinder with height 7.5 cm. The bottom layer has diameter 25 cm. The middle layer has diameter 22.5 cm. The top layer has diameter 20 cm. The surface of the cake is frosted.
- a) Sketch the cake.
b) What area of the cake is frosted?