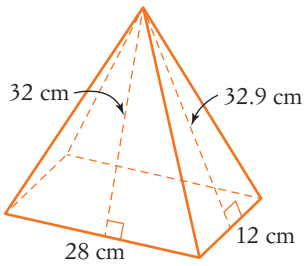
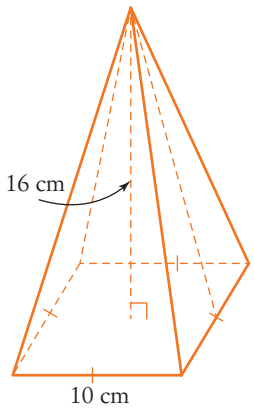
WORKSHEET

Surface area

1 **a** Calculate the surface area of this rectangular pyramid.



b

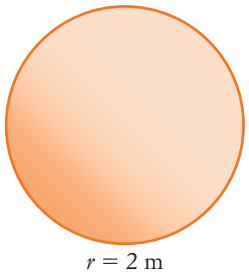


i Use Pythagoras' theorem to calculate the slant height of the square pyramid, correct to one decimal place.

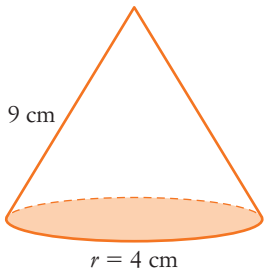
ii Calculate the surface area of the pyramid, correct to the nearest square centimetre.

2 Calculate the surface area of each solid below. Answer to one decimal place where appropriate.

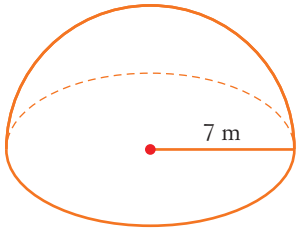
a



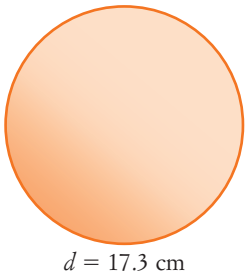
b



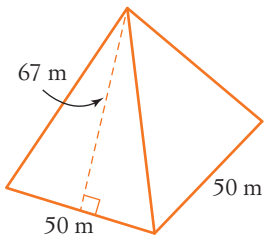
c Hemisphere



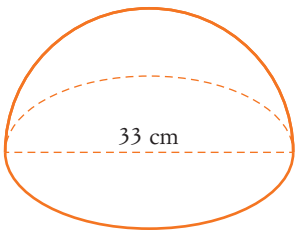
d



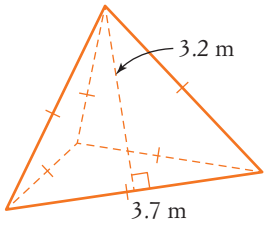
e Square pyramid



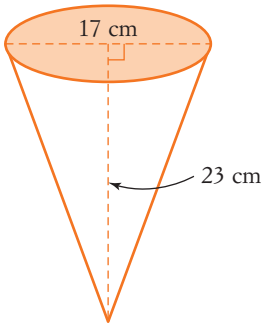
f



g

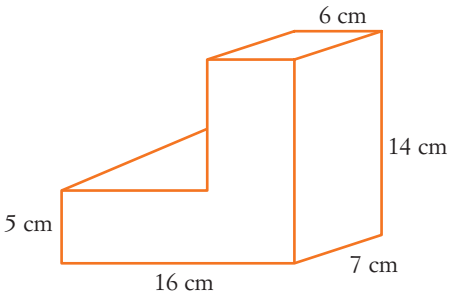


h

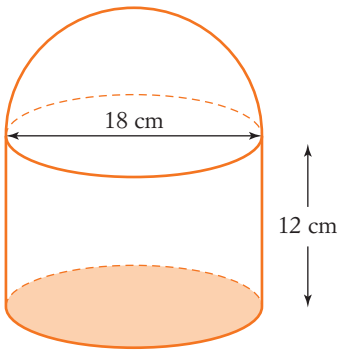


3 Answering to one decimal place where appropriate, calculate the surface area of the following composite solids.

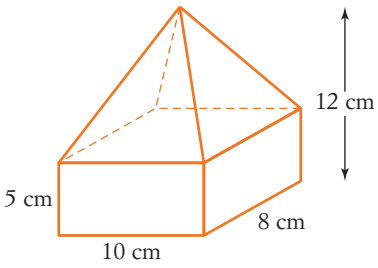
a



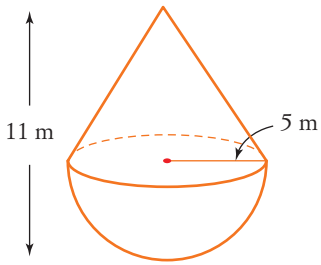
b



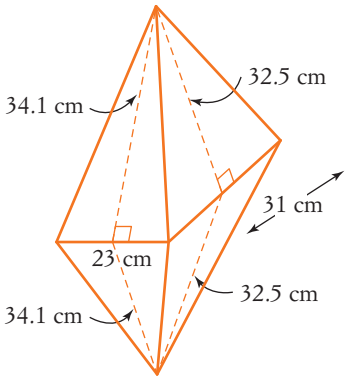
c



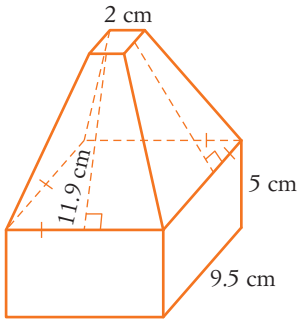
d



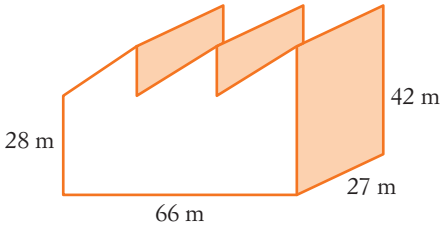
e



f A truncated square pyramid sits on top of a square prism



g Three identical right triangular prisms on top of a rectangular prism



Answers

1 **a** 1626.8 cm^2

b

i 16.8 cm

ii 435 cm^2

2 **a** 50.3 m^2

b 163.4 cm^2

c 461.8 m^2

d 940.2 cm^2

e 9200 m^2

f 2565.9 cm^2

g 23.68 m^2

h 881.8 cm^2

3 **a** 688 cm^2

b 1442.0

c 409.4 cm^2

d 279.8 m^2

e 3583.6 cm^2

f 558.0 cm^2

g 11 160.48 m^2