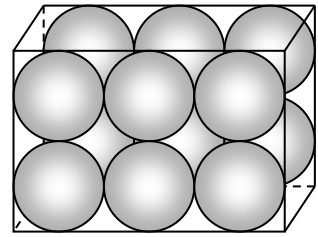


3. Twelve golf balls are packed into a box, as shown. The radius of a golf ball is 2.1 cm.

- a) Determine the minimum amount of cardboard required to make the box.



- b) Determine the amount of empty space inside the box.

- c) What percent of the box is empty space?

Answers

1a] 170.90 cm^3 1b] 8 1c] \$36.07 2] 364.82 cm^3 3a] 564.48 cm^2 3b] 423.58 cm^3 3c] 47.64%