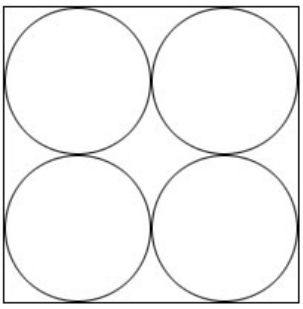
Work out the area

This task is about using the diameters of tins to work out the floor area of a carton and a given number of tins.

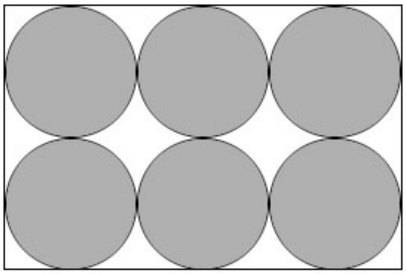
a)



Four paint tins each 12.5 cm in diameter, fit into a carton as shown. What is the area of the bottom of the carton?

(**A**) 50 cm²
(**B**) 100 cm²
(**C**) 625 cm²
(**D**) 1250 cm²
(**E**) None of these. The answer is _____ cm².

b)



The 6 smaller paint tins packed in this carton each have a radius of 5 cm.
What is the total area of the bottom of **all 6** paint cans? (Use π = 3.14)

(**A**) 78.5 cm²
(**B**) 188.4 cm²
(**C**) 471 cm²
(**D**) 600 cm²
(**E**) None of these. The answer is _____ cm².

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