

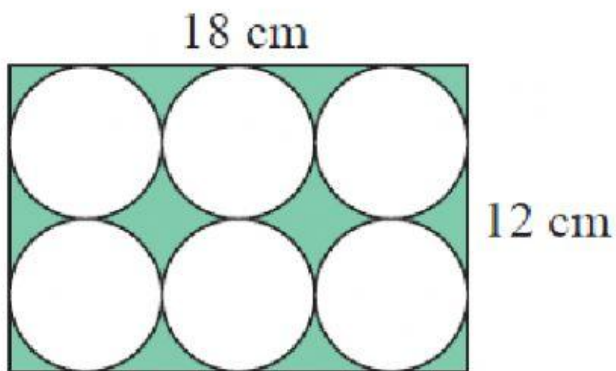
## Concept CW\_Grade-7\_Perimeter and Area

### Problems on Area and Circumference of a Circle-2

A trundle wheel is used for measuring distances. The circumference of the wheel is exactly 1 m. Each time the wheel rotates through one complete turn a click sound is heard and a counter adds a meter to the total. What is the radius of this wheel?



6 identical metal discs are stamped out of an 18 cm by 12 cm sheet of copper as illustrated. What percentage of the copper is wasted?



A table-top is shaped as illustrated. A cloth to protect the table-top from stains and heat is cut exactly the same size as the table-top. It is made from fabric 1.6 m wide and costs \$18.40 per metre of length.

- a) What length of fabric must be purchased?
- b) Calculate the cost of the fabric.
- c) Find the area of the cloth.
- d) Calculate the amount of fabric that is wasted.

