Class / Homework

Practice Page 40 - 43

Questions :

page 40
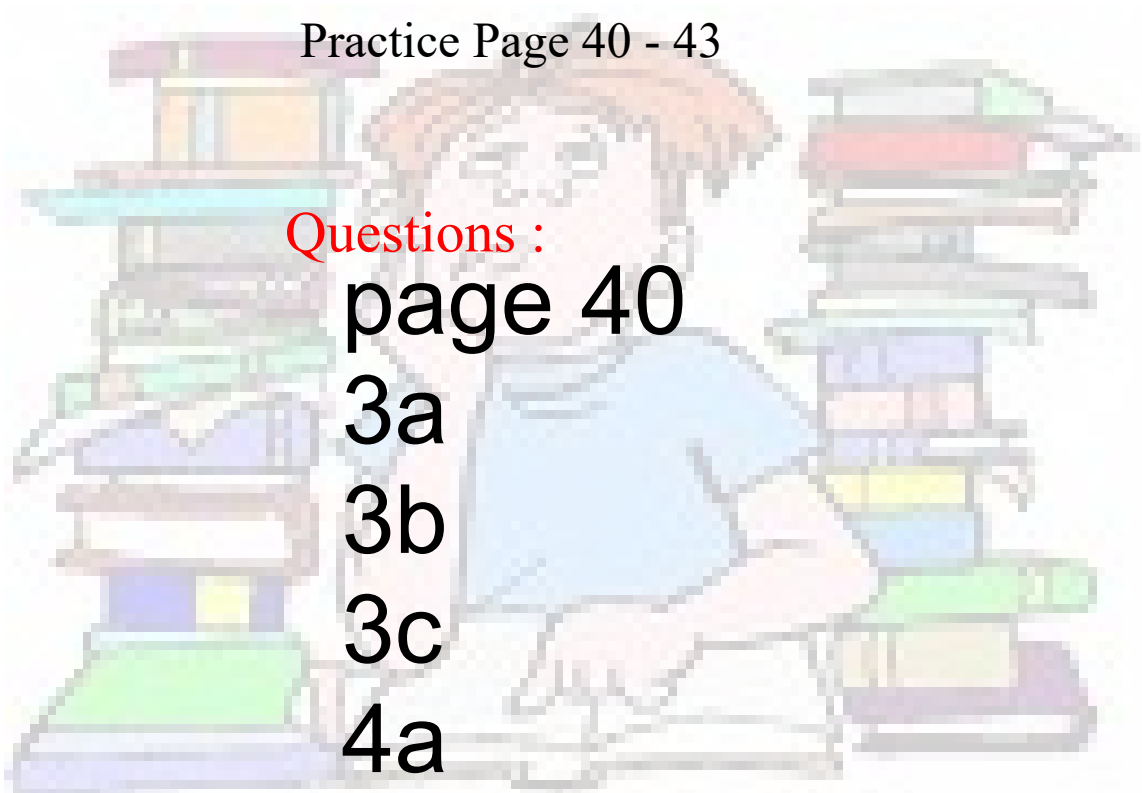## 3a
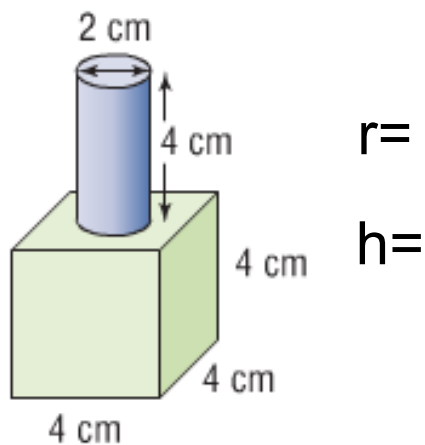## 3b
3c
4a
4b

Homework solutions

page 40

3
a) cylinder on a cube

2 cm

4 cm

4 cm

4 cm

4 cm

r=

h=

Area of cylinder = $2\pi r^2 + 2\pi rh$

Cube

Total SA = Cylinder + Cube - Overlap
=

3 **b)** cylinder on a rectangular prism

r=

h=
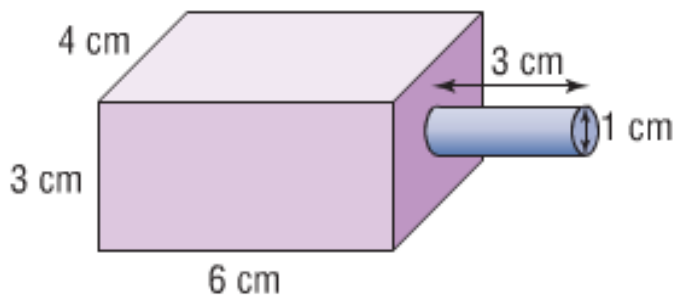
Area of cylinder $= 2\pi r^2 + 2\pi rh$

Rectangular Prism   ———, ———, ———

Rectangular Prism SA =

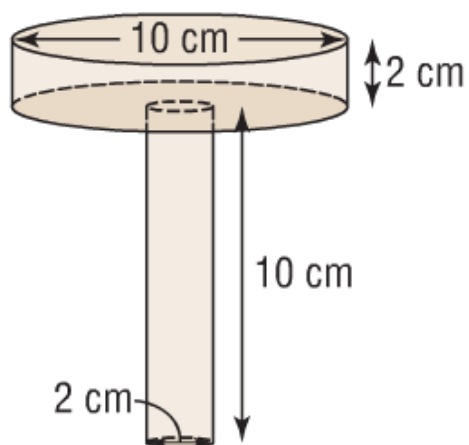Total SA = Cylinder + Rect Prism - Overlap

=

Homework solutions

3c

c) cylinder on a cylinder
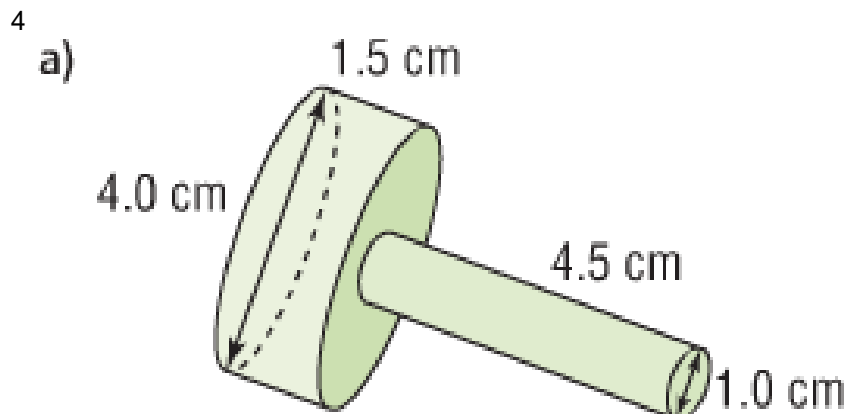

10 cm

2 cm

10 cm

2 cm

long tube

Area of cylinder = $2\pi r^2 + 2\pi rh$

puck shape

Area of 2nd cylinder = $2\pi r^2 + 2\pi rh$

Total SA = Cylinder + Cylinder - Overlap

4

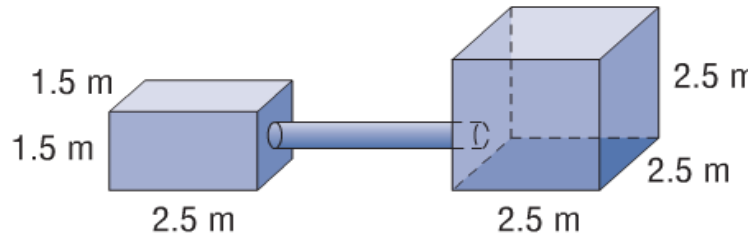a)   1.5 cm

4.0 cm

4.5 cm

1.0 cm

Top
Area of cylinder = $2\pi r^2 + 2\pi rh$

Long
Area of cylinder = $2\pi r^2 + 2\pi rh$

Total SA = Cylinder + Cylinder - Overlap

Homework solutions
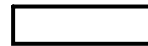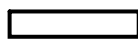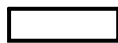Solutions

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

1.5 m
1.5 m
2.5 m

2.5 m
2.5 m
2.5 m
2.5 m

Area of cylinder $= 2\pi r^2 + 2\pi rh$

Prism 1   ____, ____, ____,

SA Prism 1 =

Cube

Total SA= Rectangular_Prism   + Cube   + Cylinder - Overlap - Overlap