NI		
Name:		

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cylinder

5.4

Surface Area of a Cylinder

MathLinks 8, pages 182-187

Key Ideas Review

Choose from the following terms to complete #1.

3-D object add area circumference

- 1. Complete each statement.
 - a) To find the surface area of a cylinder, you _____ the

_____ of each face of the object.

- **b)** A net of a ______ is made up of three faces.
- c) The rectangle in the net of a cylinder uses the ______ of the circle as one dimension.

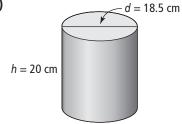
Practise and Apply

2. Sketch a net for this cylinder.



3. Estimate the surface area for each cylinder.

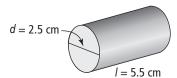






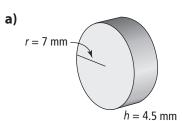


4. Calculate the surface area of this cylinder to the nearest hundredth of a square centimetre.

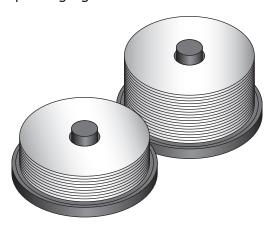


5. Use the following formula to find the surface area of each cylinder to the nearest hundredth of a square unit.

$$SA = (2 \times \pi \times r^2) + (\pi \times d \times h)$$



6. Recordable disks come in bulk packaging of various sizes.



A single compact disk has a diameter of 12 cm and a width of 0.1 cm.

a) Calculate the surface area of one compact disk to the nearest tenth of a centimetre squared.

b) d = 9.5 kmh = 11 km

b) Calculate the surface area of a bulk container that holds 50 compact disks. Explain your reasoning.