Date:	



Nets of Three-Dimensional Objects

MathLinks 8, pages 170-175

Key Ideas Review

1. Complete each statement.

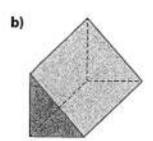
a) A _______ is a 2-D figure that creates a 3-D object when it is folded.

b) Different nets can be folded into the same _____

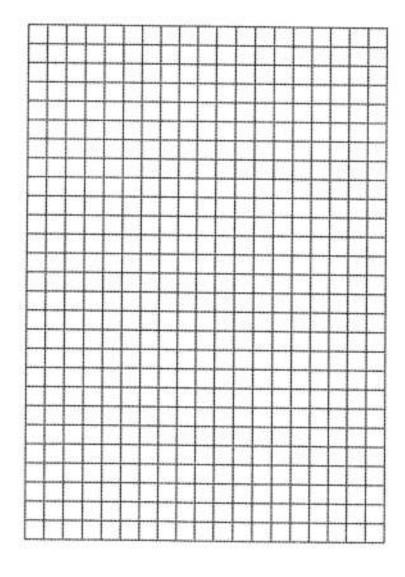
Practise and Apply

2. Draw a net for each object.









4. Circle the top view of each object.

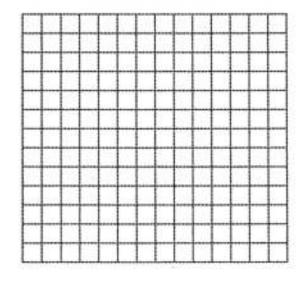






5. Draw and label the top, front, and side views when this table is rotated 90° clockwise.





6. Sketch each 3-D object from the three views given.

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7. Choose the correct top, front, and side view for this object and label each one.

















Surface Area of a Prism

MathLinks 8, pages 176-181

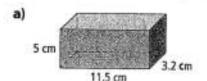
Key Ideas Review

Complete the statement.

Finding the sum of all the areas of each ______ on a 3-D object is called calculating the ______.

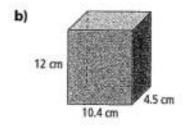
Practise and Apply

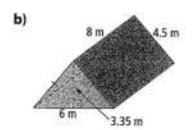
Calculate the surface area of each rectangular prism to the nearest tenth of a centimetre squared.



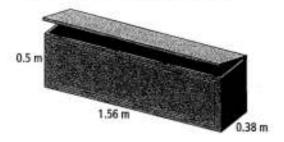
Find the surface area of each triangular prism to the nearest tenth of a meter squared.

a) 10.6 m 2.5 m

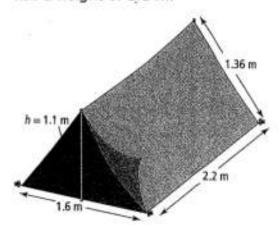




4. Ty is painting this storage bench for the deck. How much area does he need to paint, to the nearest hundredth of a square metre?

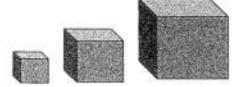


6. The Rileys need to make a new cover for their tent before going camping this summer. Their tent measures 2.2 m in length by 1.6 m wide, and it has a height of 1.1 m.



a) Calculate the amount of material they need to make the new cover.

5. Peter needs to paint three boxes for a project. The boxes measure 1.5 m × 1.5 m × 1.5 m, 2.5 m × 2.5 m × 2.5 m, and 3.5 m × 3.5 m × 3.5 m respectively. What is the total surface area that Peter will paint, if he paints the outside of all of the boxes?



b) Waterproof material at the Fabric Warehouse is on sale this week for \$24.95 a square metre. Calculate the cost to make the new cover.

Name:			

Date:	
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Surface Area of a Cylinder

MathLinks 8, pages 182-187

Key Ideas Review

Choose from the following terms to complete #1.

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

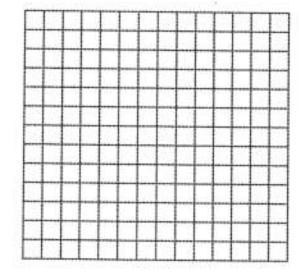
b) A net of a ______ is made up of three faces.

c) The rectangle in the net of a cylinder uses the ______ of the circle as one dimension.

Practise and Apply

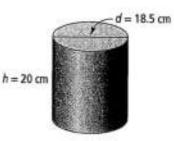
Sketch a net for this cylinder.





Estimate the surface area for each cylinder.

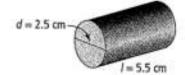




b)

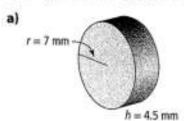


 Calculate the surface area of this cylinder to the nearest hundredth of a square centimetre.

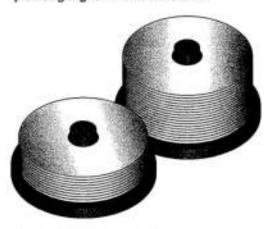


Use the following formula to find the surface area of each cylinder to the nearest hundredth of a square unit.

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

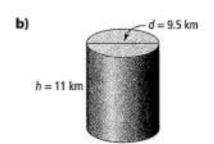


Recordable disks come in bulk packaging of various sizes.



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