Name: _____ Date: _____

5 Practice Test

For #1 to #5, circle the best answer.

1. The shape of the top view of this container shows a

A circle **B** square

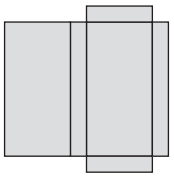
C triangle **D** rectangle

2. One face on a cube has an area of 50 cm^2. What is the surface area of the cube?

A 350 cm^2 **B** 300 cm^2

C 200 cm^2 **D** 150 cm^2

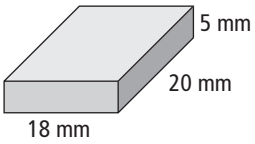
3. What 3-D object has a net like this one?



A cube **B** cylinder

C triangular prism **D** rectangular prism

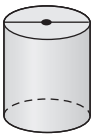
4. What is the surface area of this box?



A 550 mm^2 **B** 900 mm^2

C 1100 mm^2 **D** 1800 mm^2

5. What is the surface area of a cylinder that is 30 cm long and has a radius of 4 cm?

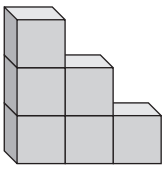


A 427.04 cm^2 **B** 477.28 cm^2

C 803.84 cm^2 **D** 854.08 cm^2

Short Answer

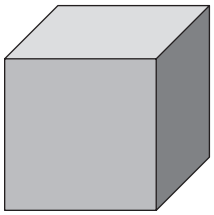
6. Label the top, front, and side views.



_____ _____ _____

Name: _____ Date: _____

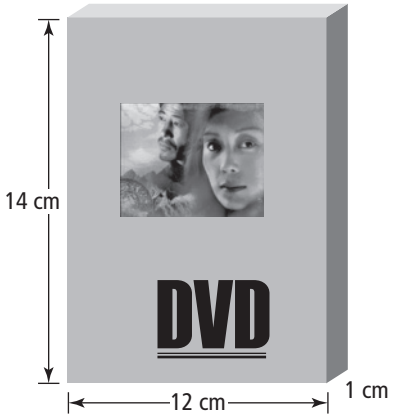
7. An object may have more than 1 net.
Draw 2 different nets for this cube.



Net 1

Net 2

8. A DVD case is 14 cm long, 12 cm wide, and 1 cm thick.
Calculate the surface area to the nearest tenth (1 decimal place).



Draw and label the dimensions for each view.

top front or back sides

Calculate the area of each view.

Sentence: _____

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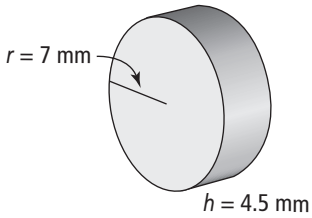
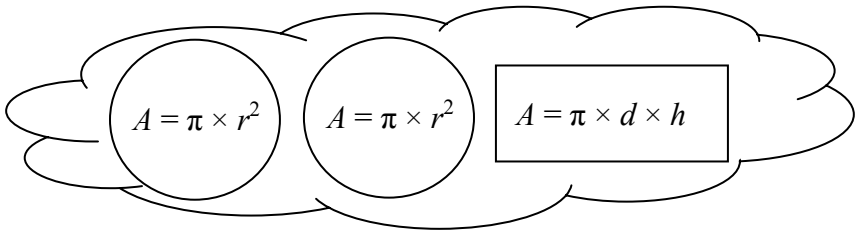
9. Find the surface area of the cylinder.
Use the formula $S.A. = 2 \times (\pi \times r^2) + (\pi \times d \times h)$





Formula → $S.A. = 2 \times (\pi \times r^2) + (\pi \times d \times h)$

Substitute → $S.A. =$ _____

Solve →

WRAP IT UP!

Create your miniature community!
Work in a group to draw an aerial view for your community.

a) In the table below, list
- the names of the students in your group
- the names of the 2 buildings that each student sketched in the Math Link on page 244.

Student	Building 1	Building 2