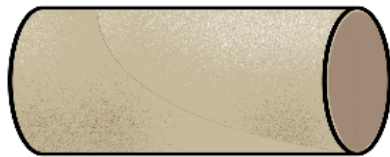# Activity 5 Assessment
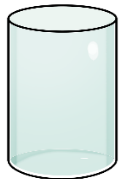## Determining the Surface Area of Cylinders

Determining the Surface Area of Cylinders

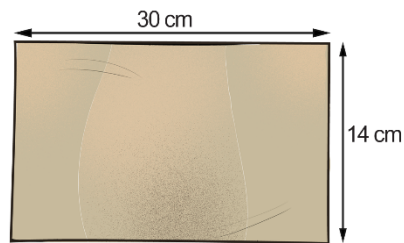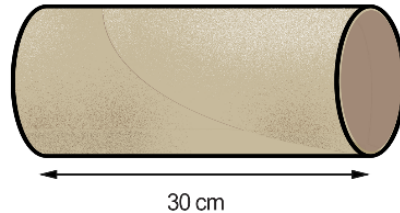| Recognizes the three different types of right cylinders	Determines the surface area of a cylinder with two open ends	Determines the surface area of cylinders with one/two closed ends	Identifies the type of cylinder and applies the appropriate surface area formula for a given context

Cardboard tube: 2 open ends

Cylindrical vase: 1 open end

Can of tuna: 2 closed ends

30 cm

30 cm

14 cm

"I cut the cardboard tube at right angles to the circumference and flattened it to make a rectangle. I measured its length and width.

Surface area = 30 cm × 14 cm
= 420 cm²"

10 cm

17 cm

"The length of the curved surface is equal to the circumference of the circle, or πd."

Surface area of vase:
$(\pi \times 10 \times 17) + \pi \times 5^2$
$= 612.6\ldots$
The surface area is about 613 cm²."

8 cm

4 cm
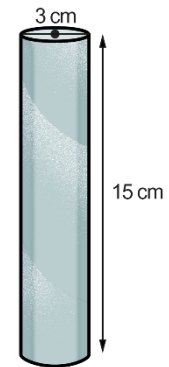
"Surface area of can:
$(\pi \times 8 \times 4) + 2 \times \pi \times 4^2$
$= 201.0\ldots$
The surface area is about 201 cm²."

Bathroom tissue roll

3 cm

15 cm

"This is an open cylinder. It has no bases.

Surface area:
$SA = \pi \times 3 \times 15$
$\approx 141.371\ldots$
The surface area is about 141 cm²."

Mathology 8 PEI
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Observations/Documentation