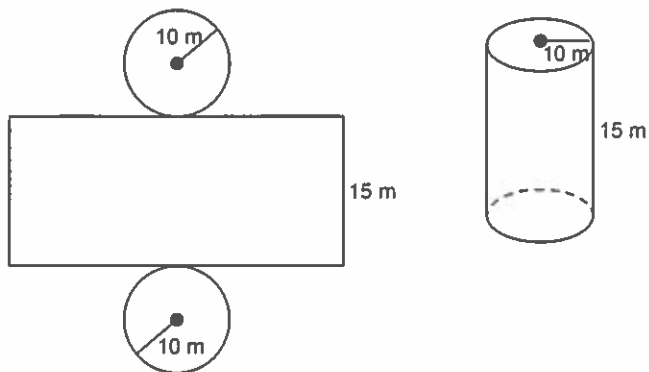


Surface Area of a Cylinder

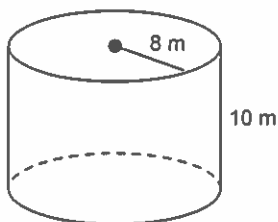
Multiple Choice

Identify the choice that best completes the statement or answers the question.

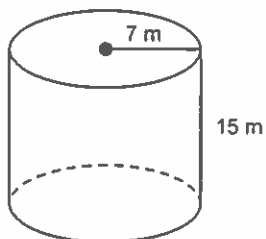
- ___ 1. Use this net to find the surface area of the cylinder. Give the answer to the nearest square metre.



- a. 785 m^2 b. 1257 m^2 c. 1100 m^2 d. 1571 m^2
- ___ 2. Find the surface area of this cylinder to the nearest square metre.



- a. 905 m^2 b. 704 m^2 c. 653 m^2 d. 452 m^2
- ___ 3. Find the surface area of this cylinder. Leave π in your answer.

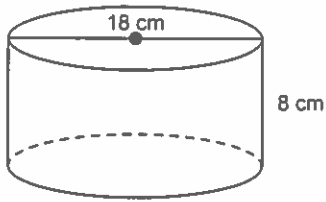


- a. $210\pi \text{ m}^2$ b. $308\pi \text{ m}^2$ c. $602\pi \text{ m}^2$ d. $238\pi \text{ m}^2$

Name: _____

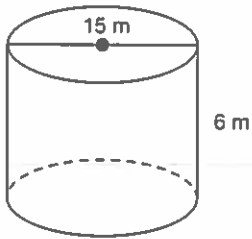
ID: A

- ___ 4. Find the surface area of this cylinder. Leave π in your answer.



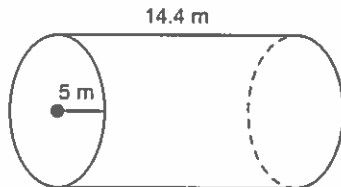
- a. $792\pi \text{ cm}^2$ b. $936\pi \text{ cm}^2$ c. $306\pi \text{ cm}^2$ d. $450\pi \text{ cm}^2$

- ___ 5. Find the surface area of this cylinder. Round your answer to the nearest tenth of a square metre.



- a. 459.5 m^2 b. 636.2 m^2 c. 289.8 m^2 d. 42.4 m^2

- ___ 6. Find the curved surface area of this cylindrical tube.
Use $\pi = 3.14$ and round your answer to the nearest square metre.



- a. 452 m^2 b. 305 m^2 c. 226 m^2 d. 157 m^2

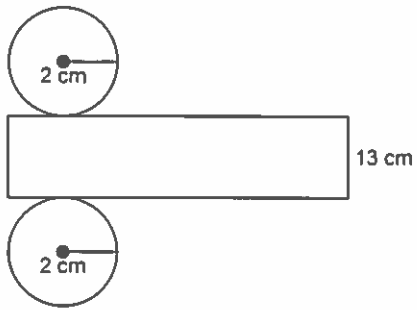
Short Answer

7. A circle has radius 18 cm. Find the circumference to the nearest centimetre.
8. A circle has diameter 17 cm. Find the circumference to the nearest centimetre.

Name: _____

ID: A

9. Find the area of this net. Give your answer to the nearest square centimetre.



10. Which cylinder has the greatest surface area?

Cylinder A: base radius 3 cm, length 5 cm

Cylinder B: base radius 4 cm, length 3 cm

Cylinder C: base radius 5 cm, length 1 cm

Cylinder D: base radius 3 cm, length 6 cm

Surface Area of a Cylinder

Answer Section

MULTIPLE CHOICE

1. ANS: D PTS: 1 DIF: Easy
REF: 4.7 Surface Area of a Right Cylinder LOC: 8.SS3
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
2. ANS: A PTS: 1 DIF: Easy
REF: 4.7 Surface Area of a Right Cylinder LOC: 8.SS3
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
3. ANS: B PTS: 1 DIF: Easy
REF: 4.7 Surface Area of a Right Cylinder LOC: 8.SS3
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
4. ANS: C PTS: 1 DIF: Moderate
REF: 4.7 Surface Area of a Right Cylinder LOC: 8.SS3
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
5. ANS: B PTS: 1 DIF: Moderate
REF: 4.7 Surface Area of a Right Cylinder LOC: 8.SS3
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
6. ANS: A PTS: 1 DIF: Moderate
REF: 4.7 Surface Area of a Right Cylinder LOC: 8.SS3
TOP: Shape and Space (Measurement) KEY: Conceptual Understanding

SHORT ANSWER

7. ANS:
The circumference of the circle is about 113 cm.

PTS: 1 DIF: Easy REF: 4.7 Surface Area of a Right Cylinder
LOC: 8.SS3 TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
8. ANS:
The circumference of the circle is about 53 cm.

PTS: 1 DIF: Easy REF: 4.7 Surface Area of a Right Cylinder
LOC: 8.SS3 TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
9. ANS:
The area of the net is about 188 cm².

PTS: 1 DIF: Easy REF: 4.7 Surface Area of a Right Cylinder
LOC: 8.SS3 TOP: Shape and Space (Measurement) KEY: Conceptual Understanding
10. ANS:
Cylinder C has the greatest surface area.

PTS: 1 DIF: Moderate REF: 4.7 Surface Area of a Right Cylinder
LOC: 8.SS3 TOP: Shape and Space (Measurement) KEY: Conceptual Understanding | Problem-solving Skills