

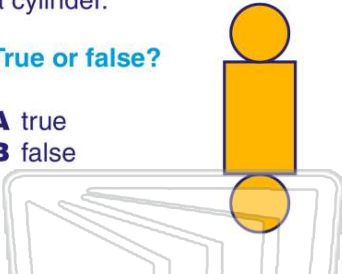


Name _____ Class _____ Date _____

- 1 The figure shown is the **net** for a cylinder.

True or false?

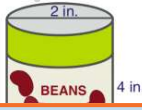
- A true
B false



- 3 What is the **surface area** of the can of beans shown?

$$SA = 2\pi rh + 2\pi r^2 \quad \pi = 3.14$$

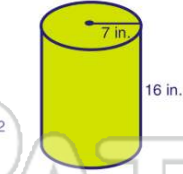
- A 15.7 in.²
B 31.4 in.²
C 37.68 in.²
D



- 4 What is the difference in **surface area** for the figures shown?

$$SA = 2\pi rh + 2\pi r^2 \quad \pi = 3.14$$

- A 31.4 in.²
B 282.60 in.²
C 301.44 in.²
D



PREVIEW

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- 7
- A 16.5 in.
B 33 in.
C 136.125 in.
D 272.25 in.

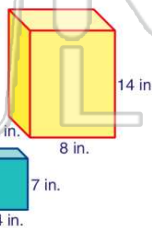


- A 5.125 cm
B 10.25 cm
C 20.5 cm
D 41 cm



- 9 Using the figures shown, which **statement** is true?
(SA = surface area)

- A SA of small box is 3 times SA of large box.
B SA of large box is double SA of small box.
C SA of small box is 4 times SA of large box.
D SA of large box is 4 times SA of small box.



- 10 The **ratio of the surface area** of two cylinders is **1:9**. The smaller cylinder has a radius of **3 in.** and a height of **4 in.** What are the dimensions of the larger cylinder?

- A radius = 4 in., height = 7 in.
B radius = 6 in., height = 8 in.
C radius = 9 in., height = 12 in.
D radius = 27 in., height = 36 in.



ANSWER KEY

The figure shown is the **net** for a cylinder.

True or false?

- A true
- B false

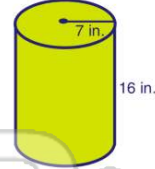


(b)

What is the **surface area** of the cylinder shown?

$$SA = 2\pi rh + 2\pi r^2 \quad \pi = 3.14$$

- A 428.61 in.²
- B 505.54 in.²
- C 791.28 in.²
- D 1,011.08 in.²

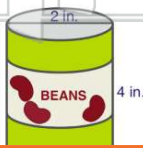


(d)

What is the **surface area** of the can of beans shown?

$$SA = 2\pi rh + 2\pi r^2 \quad \pi = 3.14$$

- A 15.7 in.²
- B 31.4 in.²
- C 37.68 in.²
- D 62.8 in.²

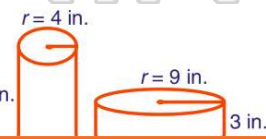


(b)

What is the difference in **surface area** for the figures shown?

$$SA = 2\pi rh + 2\pi r^2 \quad \pi = 3.14$$

- A 31.4 in.²
- B 282.60 in.²
- C 301.44 in.²
- D 376.80 in.²



(d)



PREVIEW

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- B 33 in.
- C 136.125 in.
- D 272.25 in.



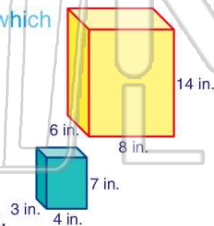
- B 10.25 cm
- C 20.5 cm
- D 41 cm



Using the figures shown, which statement is true?

(SA = surface area)

- A SA of small box is 3 times SA of large box.
- B SA of large box is double SA of small box.
- C SA of small box is 4 times SA of large box.
- D SA of large box is 4 times SA of small box.



(d)

The **ratio of the surface area** of two cylinders is **1:9**. The smaller cylinder has a radius of **3 in.** and a height of **4 in.** What are the dimensions of the larger cylinder?

$$SA = 2\pi rh + 2\pi r^2 \quad \pi = 3.14$$

- A radius = 4 in., height = 7 in.
- B radius = 6 in., height = 8 in.
- C radius = 9 in., height = 12 in.
- D radius = 27 in., height = 36 in.

(c)