Exploring Area and Surface Area

Math

Name_____ Class_____ Date_____

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

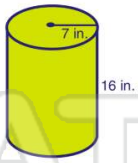
True or false?

A true
B false

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

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

A 428.61 in.^{2}
B 505.54 in.^{2}
C 791.28 in.^{2}
D 1,011.08 in.^{2}



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

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

A 15.7 in.^{2}

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

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

A 31.4 in.^{2}

PREVIEW

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5

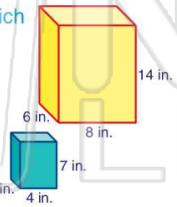
7

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

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?

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

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.

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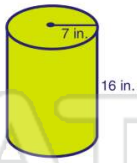

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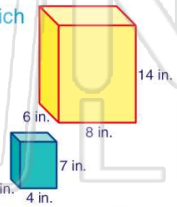

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