LESSON 10-3 Puzzles, Twisters & Teasers

Loud and Clear!

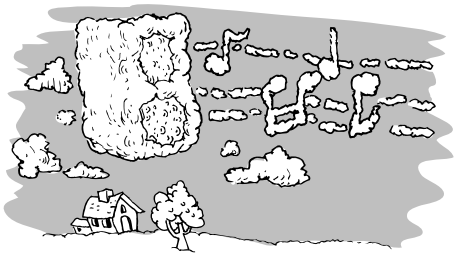
Circle words from the list in the word search. Then find a word that answers the riddle. Circle it and write it on the line.

volume pyramid cone sphere container
prism congruent base radius cylinder

C	O	N	G	R	U	E	N	T	C	V
L	U	J	I	A	C	V	B	N	O	W
O	O	P	L	D	F	G	H	J	N	C
U	D	P	R	I	S	M	E	R	T	Y
D	M	N	B	U	A	S	D	F	A	L
P	C	B	A	S	E	T	Y	U	I	I
Y	W	D	R	T	H	U	I	J	N	N
R	W	S	C	D	E	C	O	N	E	D
A	T	H	U	Y	S	P	H	E	R	E
M	V	O	L	U	M	E	G	T	R	R
I	P	L	M	N	K	O	I	J	B	Y
D	Q	W	E	R	T	Y	U	I	I	O

How does the sky listen to music?

Through a cloud -speaker



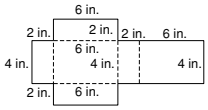
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LESSON 10-4 Practice A

Surface Area of Prisms and Cylinders

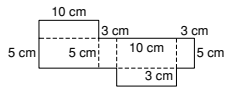
Find the surface area of the prism formed by each net. Choose the letter for the best answer.

1.



A 36 in^2 **C** 48 in^2
B 44 in^2 **D** 88 in^2

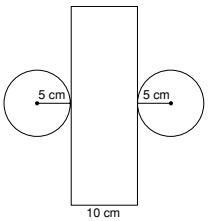
2.



F 95 cm^2 **H** 190 cm^2
G 100 cm^2 **J** 380 cm^2

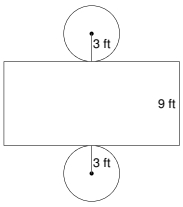
Find the surface area of the cylinder formed by each net to the nearest whole number. Choose the letter for the best answer.

3.



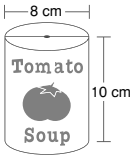
A 157 cm^2 **C** 471 cm^2
B 314 cm^2 **D** 942 cm^2

4.



F 226 ft^2 **H** 113 ft^2
G 170 ft^2 **J** 57 ft^2

5. A soup can has a diameter of 8 centimeters and a height of 10 centimeters. The label for the can covers the entire side of the can. About how many square centimeters of paper are needed for the label? Round to the nearest whole number.



251 cm^2

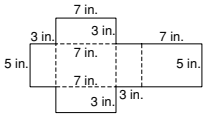
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LESSON 10-4 Practice B

Surface Area of Prisms and Cylinders

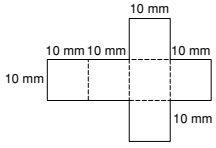
Find the surface area of the prism formed by each net to the nearest tenth.

1.



142 in^2

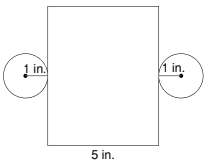
2.



600 mm^2

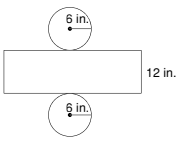
Find the surface area of the cylinder formed by each net to the nearest tenth.

3.



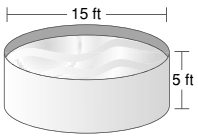
37.7 in^2

4.



678.2 in^2

5. Mr. Wang has a circular swimming pool with a diameter of 15 feet and a height of 5 feet. Mr. Wang buys a liner to cover the bottom and the sides of the pool. To the nearest square foot, about how many square feet of liner should Mr. Wang buy in order to have enough liner? Explain your answer.



He needs 412.125 ft^2. So, to the nearest foot, he should buy 413 ft^2.

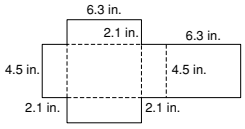
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LESSON 10-4 Practice C

Surface Area of Prisms and Cylinders

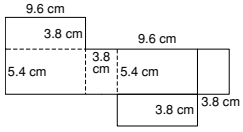
Find the surface area of the prism formed by each net to the nearest tenth.

1.



102.1 in^2

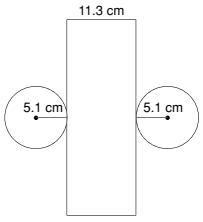
2.



217.7 cm^2

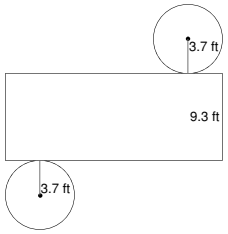
Find the surface area of the cylinder formed by each net to the nearest tenth.

3.



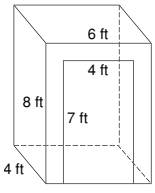
525.3 cm^2

4.



302.1 ft^2

5. The diagram shows a closet that is shaped like a rectangular prism. Judith is lining the inside of the closet, including the floor, with cedar. Judith is not lining the doorway. If cedar costs $4.00 per square foot, what will the total cost of the cedar be?



$720

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