

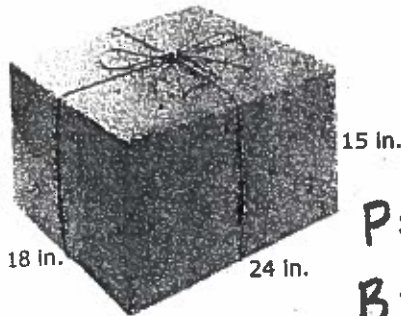
# HW # 1.6

Standard 8.7(B) - Readiness

Unit 22 Independent Practice



Benjamin wrapped a box in shipping paper to mail to his grandfather.



$P =$   
 $B =$

How many square inches of paper did Benjamin use to wrap the box?  $h =$

- (A) 1,260 in.<sup>2</sup>
- (B) 1,404 in.<sup>2</sup>
- (C) 1,584 in.<sup>2</sup>
- (D) 2,124 in.<sup>2</sup>

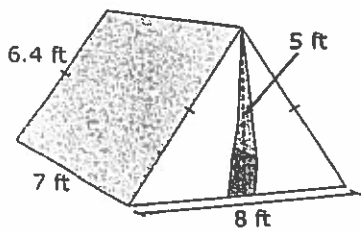
$S = Ph + 2B$

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\_\_\_\_\_

\_\_\_\_\_

The tent shown is made of water resistant fabric. The floor of the tent is made of the same material.



How much fabric is needed to create the lateral faces of the tent?

- (A) 185.6 ft<sup>2</sup>
- (B) 145.6 ft<sup>2</sup>
- (C) 89.6 ft<sup>2</sup>
- (D) 40.0 ft<sup>2</sup>

$S = Ph$

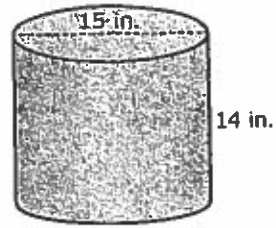
$P =$

$h =$

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\_\_\_\_\_

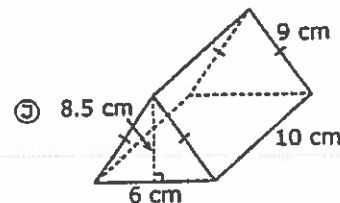
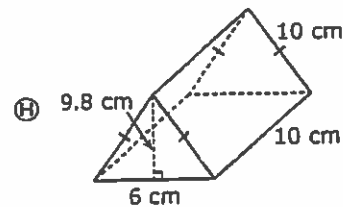
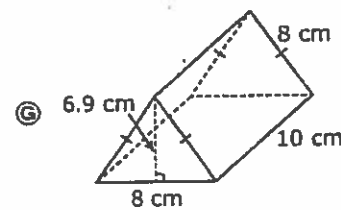
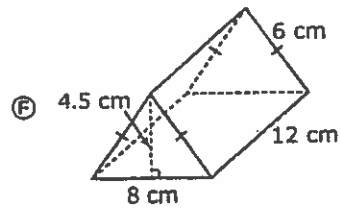
3 Look at the cylinder.



Which expression can be used to find the surface area of the cylinder?

- (A)  $2\pi(7.5) \cdot 14$
- (B)  $2\pi(7.5) \cdot 14 + \pi(7.5)^2$
- (C)  $2\pi(7.5) \cdot 14 + 2\pi(7.5)^2$
- (D)  $2\pi(7.5) \cdot 14 + 2\pi(15)^2$

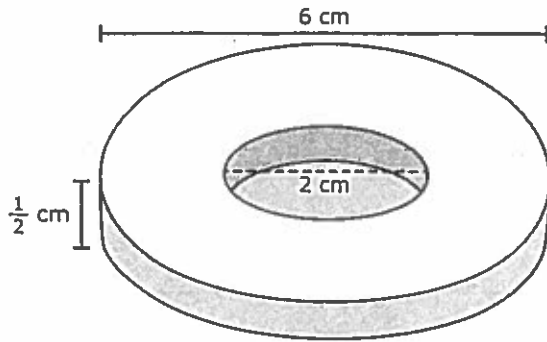
4 Which prism does NOT have a lateral surface area of 240 square centimeters?



# Challenge Problems



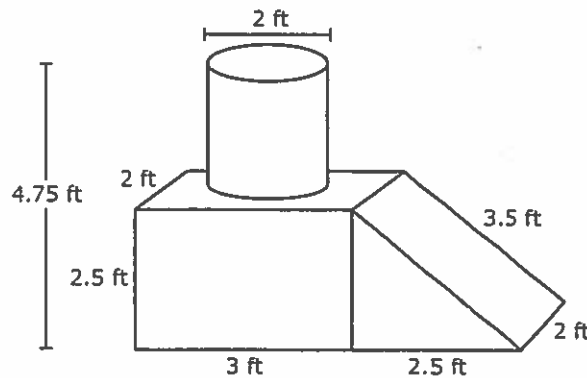
- 1 Jessa bakes cookies for the band fundraiser bake sale. The cookies are circular with a circular hole in the middle. Each cookie is dipped in chocolate.



How many square centimeters of cookie is covered by chocolate? Explain your solution process.



- 2 Frederick and Frances build a small climbing tower for their cat, Farley. A sketch of the tower is shown.



The tower is covered using one piece of carpet. The tower is placed on the floor so the bottom is not carpeted. How many square feet of the tower will be covered with carpet? Use  $\pi \approx 3.14$ .