



8-8 Additional Practice

Scan for
Multimedia



Leveled Practice In 1–3, find the area of the shaded parts.

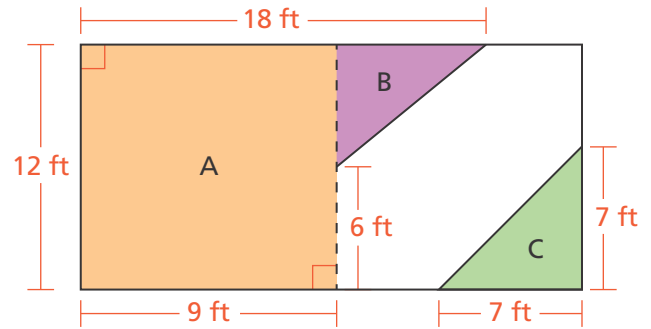
1. Lucas is planting grass on the shaded portions of the yard. What will be the total area covered by grass?

Part A = = ft²

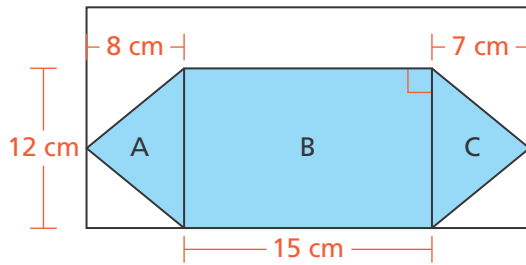
Part B = $\frac{1}{2} \cdot$ = ft²

Part C = $\frac{1}{2} \cdot$ = ft²

Total area = ft² + ft² + ft²
= ft²



2. What is the total shaded area of the figure below?



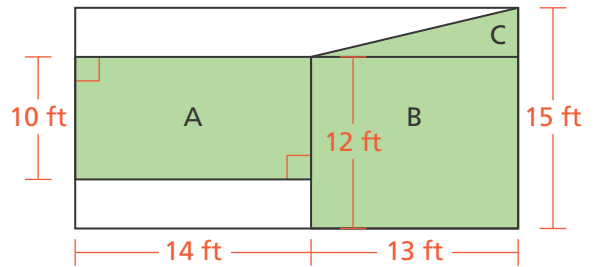
Part A = $\frac{1}{2} \cdot$ = cm²

Part B = = cm²

Part C = $\frac{1}{2} \cdot$ = cm²

Total shaded area = cm²

3. What is the total area of the shaded portion shown below?



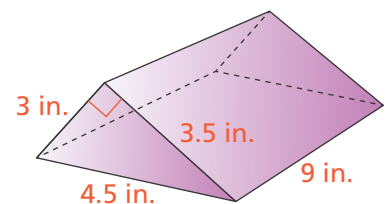
Part A = = ft²

Part B = = ft²

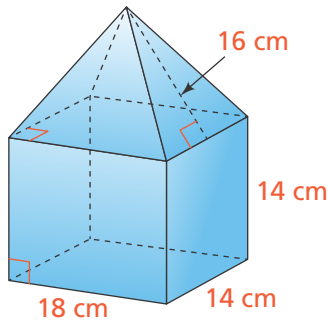
Part C = $\frac{1}{2} \cdot$ = ft²

Total shaded area = ft²

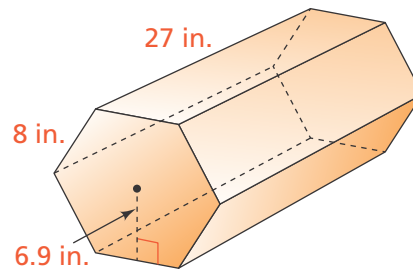
4. The block of wood shown at the right is a triangular prism. What is its surface area?



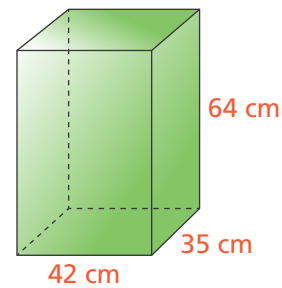
- 5. Make Sense and Persevere** The bottom part of this block is a rectangular prism. The top part is a rectangular pyramid. Kiran wants to cover the block entirely with paper. How much paper does she need? © MP.1



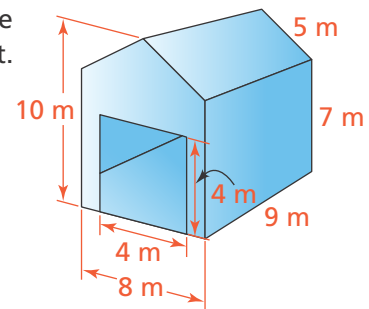
- 6.** Find the surface area of the regular hexagonal prism shown below.



- 7.** The height of the rectangular prism measures 64 cm. If the height is increased by 1.5 cm, by how much will the surface area of the box increase?



- 8. Higher Order Thinking** Joseph's uncle wants to put shingles on the outside walls and solar panel the roof of his barn shown at the right. It costs \$2.50 for each square meter of shingles, while solar panels cost \$4.00 per square meter. How much will this project cost?



© Assessment Practice

- 9.** The base of the prism shown is an isosceles triangle. What is the surface area of this prism? Explain.

