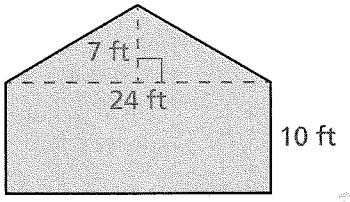
Name: _____

7-4 Additional Practice

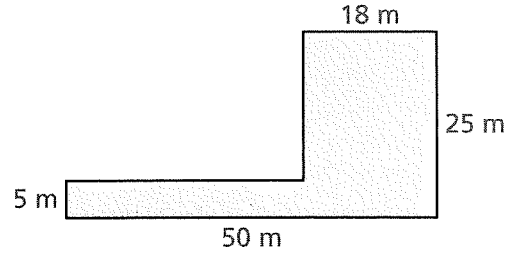
Scan for Multimedia

In 1–4, find the area of each polygon or shaded region.

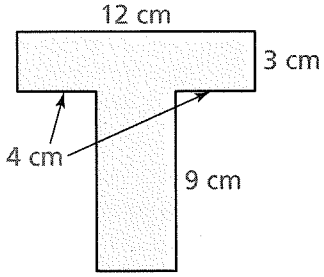
1.



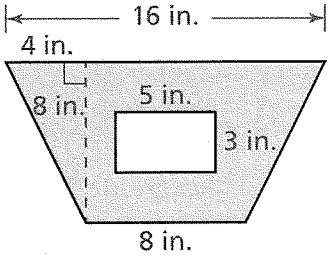
2.



3.

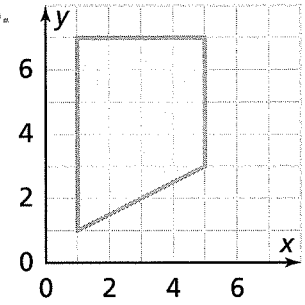


4.

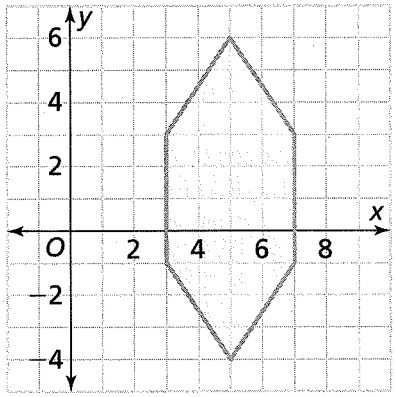


In 5 and 6, find the area of each polygon in square units.

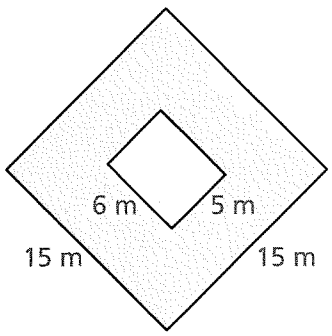
5.



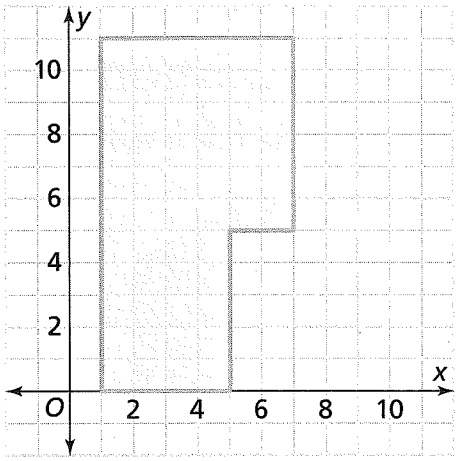
6.



7. The city engineer plans to insert a storm water drain within a public garden space. The green garden space will be filled with rocks and plants that help to purify the water. What is the area of the space that will be filled with plants and rocks?

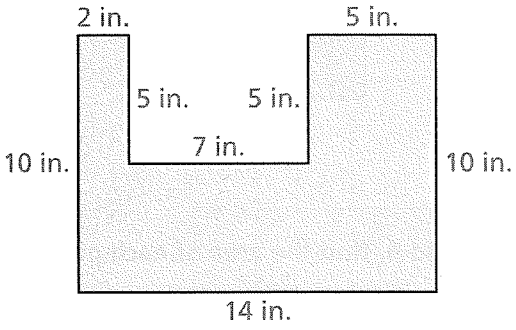


8. **Higher Order Thinking** Mrs. Via needs to buy grass seed for her yard. She drew a diagram of her yard. Each square represents 1 square yard. Five pounds of seed is enough to plant 100 square yards of grass. Grass seed is sold in 2-pound bags. How many bags of grass seed does Mrs. Via need?



Assessment Practice

9. Which of the following expressions can be used to find the area of the polygon?



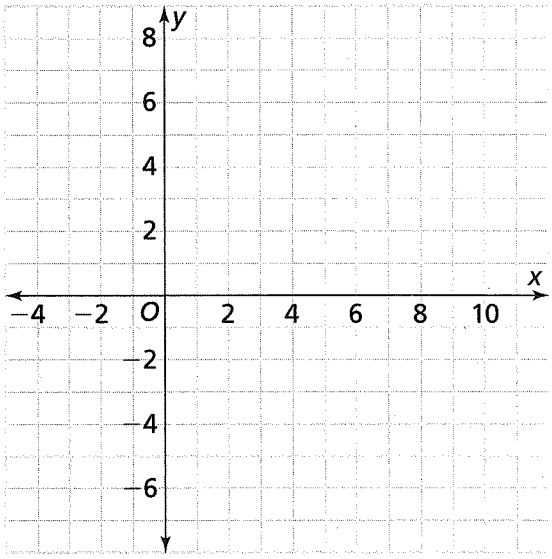
Ⓐ $(10 \times 14) - (7 \times 5)$

Ⓑ $(2 \times 10) + (5 \times 10) + (14 \times 10)$

Ⓒ $(6 \times 14) + (2 \times 10) + (5 \times 10)$

Ⓓ $(10 \times 4) + (2 \times 4) + (5 \times 4)$

10. A polygon has vertices $(-4, 8)$, $(5, 8)$, $(5, 2)$, $(9, 2)$, $(12, -6)$, and $(-4, -6)$. Graph the polygon on the coordinate plane. Which expression can be used to find the area of this polygon?



Ⓐ $(9 \times 14) + (8 \times 4) + \frac{1}{2}(8 \times 3)$

Ⓑ $(8 \times 14) + (9 \times 4) + \frac{1}{2}(9 \times 3)$

Ⓒ $(9 \times 14) + (8 \times 4) + (8 \times 3)$

Ⓓ $(9 \times 14) + (8 \times 4) + \frac{1}{4}(8 \times 3)$