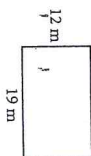
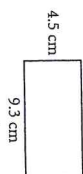


In Exercises 1–6, each quadrilateral is a rectangle.  $A$  represents area and  $P$  represents perimeter. Use the appropriate unit in each answer.

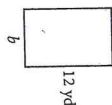
1.  $A = \frac{?}{?}$



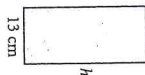
2.  $A = \frac{?}{?}$



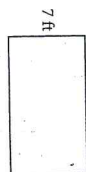
3.  $A = 96 \text{ yd}^2$   
 $b = \frac{?}{?}$



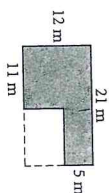
4.  $A = 273 \text{ cm}^2$   
 $h = \frac{?}{?}$



5.  $P = 40 \text{ ft.}$   
 $A = \frac{?}{?}$



6. Shaded area =  $\frac{?}{?}$

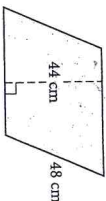


In Exercises 7–9, each quadrilateral is a parallelogram.

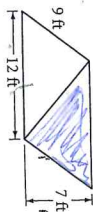
7.  $A = \frac{?}{?}$



8.  $A = 2508 \text{ cm}^2$   
 $P = \frac{?}{?}$



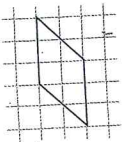
9. Find the area of the shaded region.



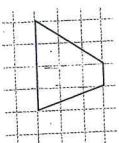
10. Sketch and label two different rectangles, each with area  $48 \text{ cm}^2$ . (H)

In Exercises 11 and 12, find the area of the figure and explain your method.

11.



12.



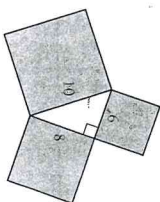
16. What is the total area of the four walls of a rectangular room 4 meters long by 5.5 meters wide by 3 meters high? Ignore all doors and windows.

17. **APPLICATION** Ernesto plans to build a pen for his pet iguana. What is the area of the largest rectangular pen that he can make with 100 meters of fencing?

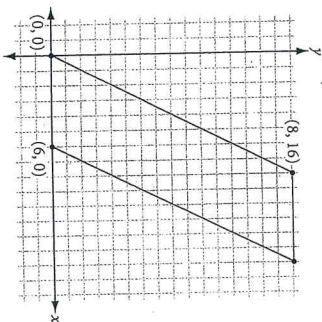
18. The big event at George Washington High School's May Festival each year is the Cow Drop Contest. A farmer brings his well-fed bovine to wander the football field until—well, you get the picture. Before the contest, the football field, which is divided into square yards, School clubs and classes may purchase square yards. If one of their squares is where the first dropping lands, they win a pizza party. If the math club purchases 10 squares, what is the probability that the club wins?

19. **APPLICATION** Sarah is tiling a wall in her bathroom. It is rectangular and measures 4 feet by 7 feet. The tiles are square and measure 6 inches on each side. How many tiles does Sarah need? (H)

22. A right triangle with sides measuring 6 cm, 8 cm, and 10 cm has a square constructed on each of its three sides, as shown. Compare the area of the square on the longest side to the sum of the areas of the two squares on the two shorter legs.



23. What is the area of the parallelogram?



24. What is the area of the trapezoid?

