

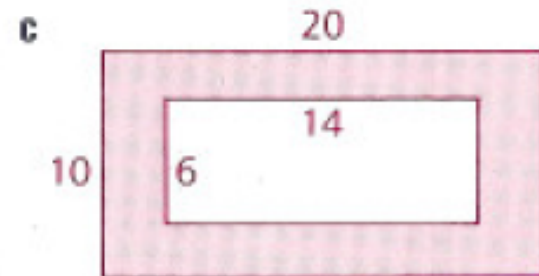
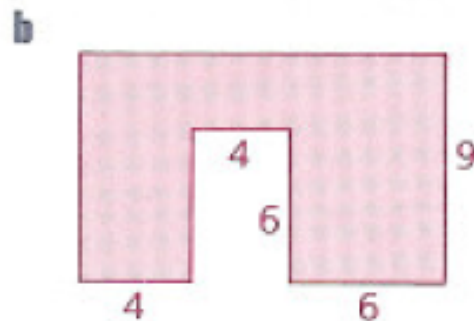
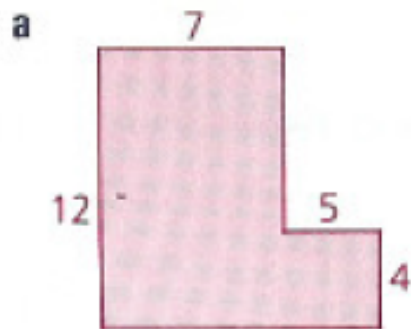
# Homework

p. 514: 6, 8, 12

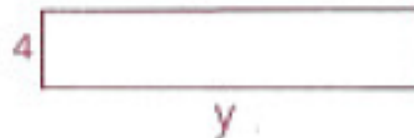
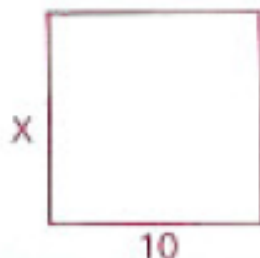
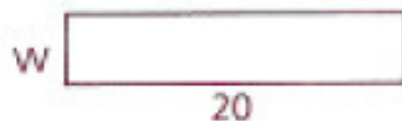
p. 520: 17, 21, 22, 23

p. 514: 6, 8, 12

6 Find the area of each shaded region. (Assume right angles.)

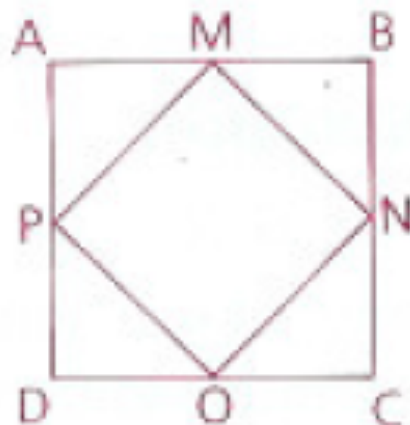


8 Each rectangular garden below has an area of 100.



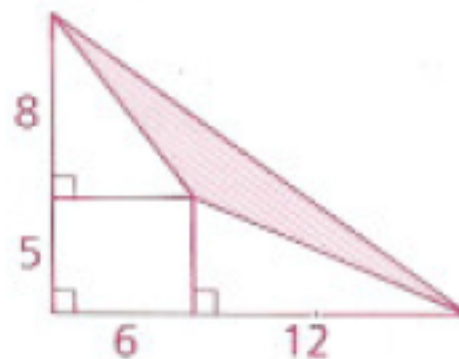
- Find the missing dimension of each.
- What length of fencing is needed to surround each?
- Which figure has the shortest perimeter?
- What do you think must be true about a rectangle that encloses the maximum possible area with the shortest possible perimeter?

- 12** The area of square  $ABCD$  is 64 square units.  $MNOP$  is formed by joining the midpoints of the sides of  $ABCD$ . Find the area and the perimeter of  $MNOP$ .

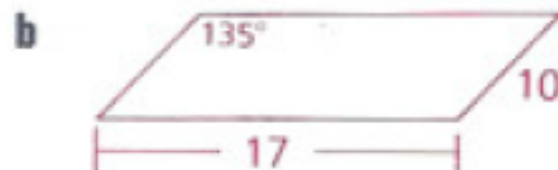


p. 520: 17, 21, 22, 23

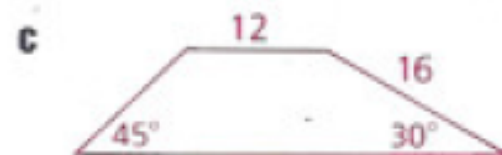
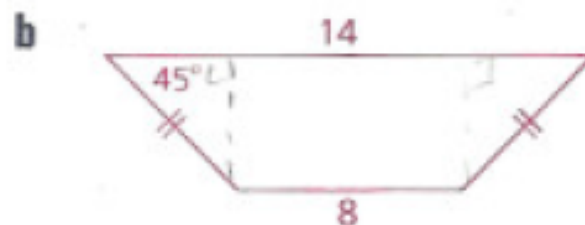
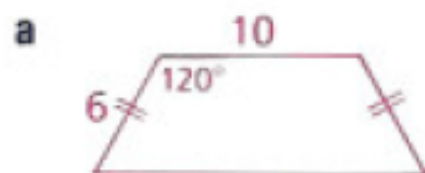
- 17 Find the area of the shaded triangular region.



- 21 Find the area of each parallelogram to the nearest tenth.



- 22 Find the area of each trapezoid by dividing it into other figures (rectangles and triangles or parallelograms and triangles).



- 23 Find the area of  $\triangle ABC$  with vertices  $A = (1, 3)$ ,  $B = (7, 3)$ , and  $C = (4, -1)$ .