Lesson 1.3: Measuring Line Segments

1. Simplify.

a) 5^2 **b)** $\sqrt{196}$ **c)** 8^2 **d)** $\sqrt{225}$

e) 1^2 **f)** $\sqrt{49}$ **g)** 9^2 **h)** $\sqrt{10\ 000}$

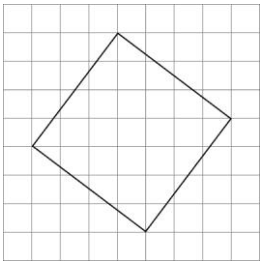
2. The area A of a square is given. Find its side length.
Which side lengths are whole numbers?

a) $A = 9\ \text{cm}^2$ **b)** $A = 56\ \text{m}^2$ **c)** $A = 81\ \text{cm}^2$

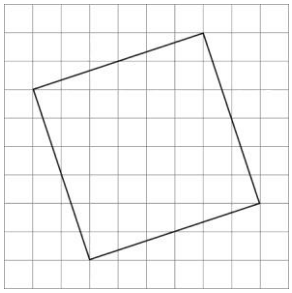
e) $A = 16\ \text{m}^2$ **f)** $A = 42\ \text{cm}^2$ **g)** $A = 72\ \text{m}^2$

3. Copy each square on grid paper. Find its area.
Then write the side length of the square.

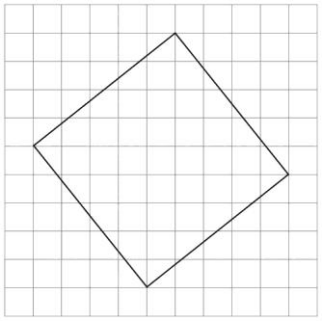
a)



b)

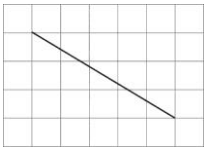


c)

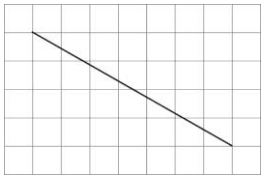


4. Copy each line segment on grid paper.
Draw a square on each line segment.
Find the area of the square and the length of the line segment.

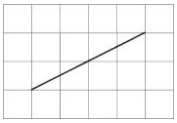
a)



b)



c)



d)