

Extra Practice 3

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) $A = 16\text{ m}^2$

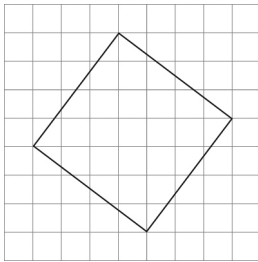
f) $A = 42\text{ cm}^2$

g) $A = 72\text{ m}^2$

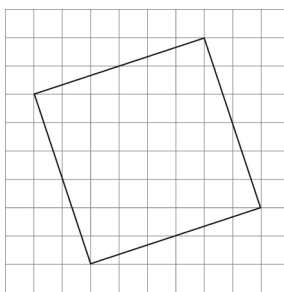
3. Copy each square on grid paper. Find its area.

Then write the side length of the square.

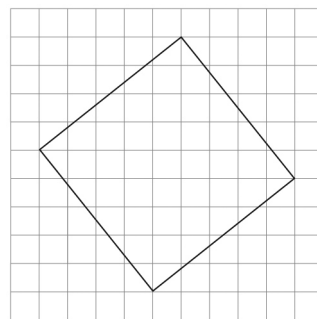
a)



b)



c)

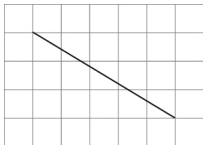


4. Copy each line segment on grid paper.

Draw a square on each line segment.

Find the area of the square and the length of the line segment.

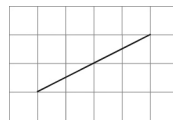
a)



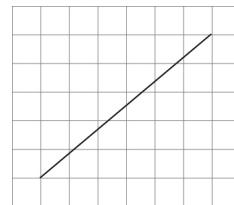
b)



c)



d)



Extra Practice Sample Answers

Extra Practice 3 – Master 1.26

Lesson 1.3

- a) 25 b) 14
c) 64 d) 15
e) 1 f) 7
g) 81 h) 100
- a) 3 cm b) $\sqrt{56}$ m c) 9 cm
d) 4 m e) $\sqrt{42}$ cm f) $\sqrt{72}$ m

The side lengths in parts a, c, and d are whole numbers.
- a) 25 square units
b) 40 square units
c) 41 square units
- a) 34 square units; $\sqrt{34}$ units
b) 65 square units; $\sqrt{65}$ units
c) 20 square units; $\sqrt{20}$ units
d) 61 square units; $\sqrt{61}$ units