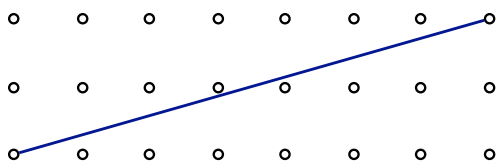


# Chapter 1- Lesson 2

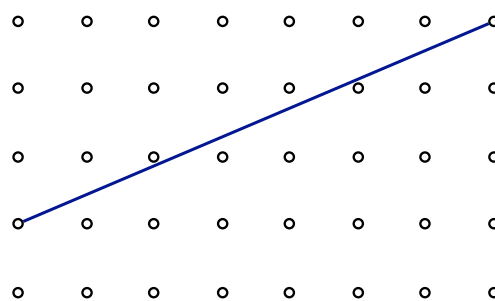
## Practice Finding Lengths

1. Find the lengths of the following segments by thinking about the surrounding square and triangles. Show clear and complete work to justify each of your solutions.

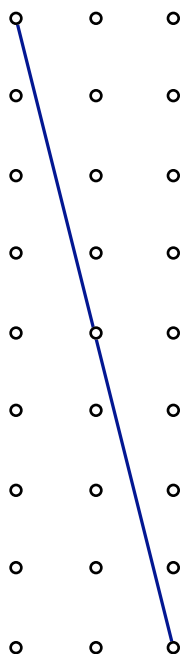
a.



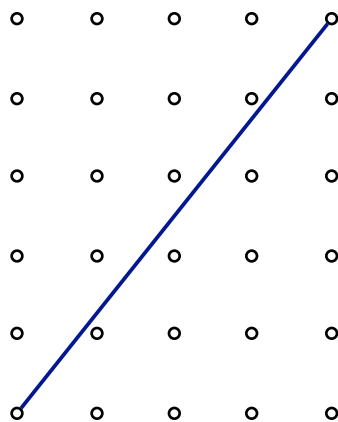
b.



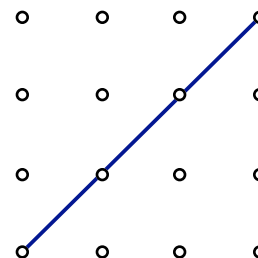
c.



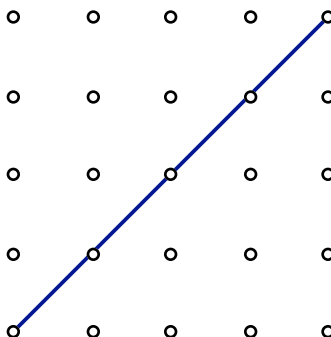
d.



e.



f.



Name \_\_\_\_\_

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Class # \_\_\_\_\_

Block \_\_\_\_\_

2. Find the lengths of the segments described below. Show clear and complete work.

a. The side triangle is a right 2, up 6 triangle.

b. The side triangle is a left 7, down 4 triangle.

c. The side triangle is a left 3, up 8 triangle.

d. The side triangle is a up 5, left 7 triangle.

e. The side triangle is a right 8, down 4 triangle.

3. Find the missing value.

a. The side triangle is a \_\_\_\_\_, up 4 triangle with an overall length of  $\sqrt{17}$ .

b. The side triangle is a left 5, \_\_\_\_\_ triangle with an overall length of  $\sqrt{34}$ .

c. The side triangle is a right 7, \_\_\_\_\_ triangle with an overall length of  $\sqrt{74}$ .

d. The side triangle is a left \_\_\_\_\_, up 8 triangle with an overall length of 10.