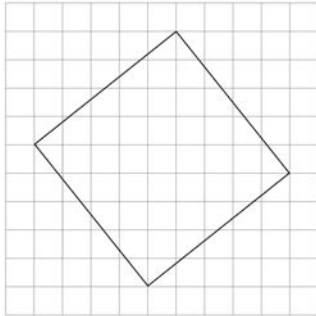
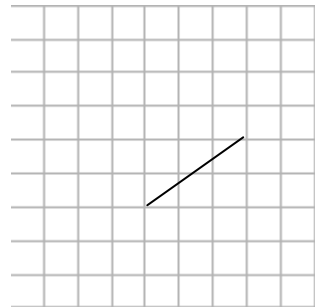


1. Find the area of the square. Then write the side length of the square. Show all your work! (4 points)

a)



2. Draw a square on the line segment. Find the area of the square and the length of the line segment. Show your work. (4 points)



3. Estimate the following square roots – no calculators allowed!!(show your work...why are you choosing the decimal you choose)

a.  $\sqrt{40}$

b.  $\sqrt{70}$

Continued from #3 (remember to show your work)

c.  $\sqrt{63}$

d.  $\sqrt{52}$

4. Indicate if each statement is true or false? Prove why . (2 points each)

a)  $\sqrt{4} \times \sqrt{8}$  is less than  $\sqrt{36}$ . \_\_\_\_\_

\_\_\_\_\_

b)  $\sqrt{12} + \sqrt{10}$  is less than  $\sqrt{32} - \sqrt{10}$ . \_\_\_\_\_

\_\_\_\_\_

c)  $\sqrt{1} + \sqrt{1} + \sqrt{1}$  is equal to  $\sqrt{3}$ . \_\_\_\_\_

5. A dog owner has 60 m of fencing. He wants to enclose a square field of area 200 m<sup>2</sup>. What are the approximate dimensions of the field? Give your answer to one decimal place. Does the dog owner have enough fencing to enclose the field? Explain (show calculations). (3 points)