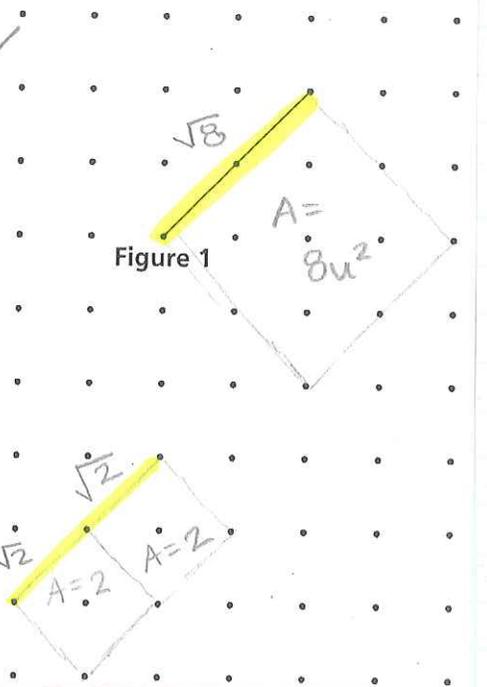


2.4 (B) p. 20

1. Ella and Oskar are both correct.

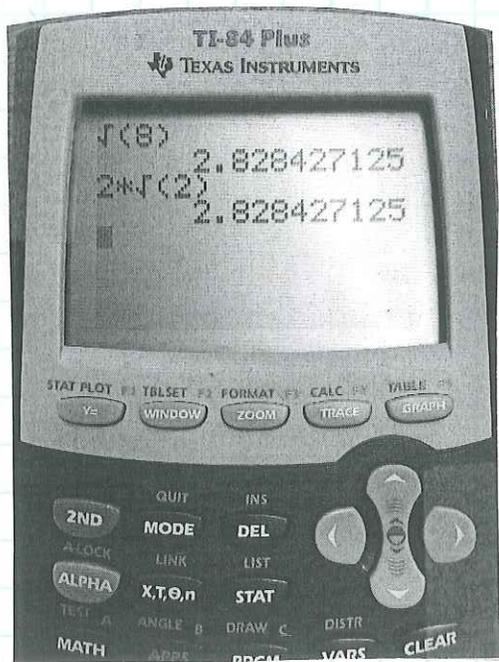
• Geometric Proof:

Ella:  $\sqrt{8}u$  ✓



Oskar:  $2\sqrt{2}$  ✓

• Calculator check:



• Simplifying Square Roots Proof (challenge: this method will NOT be on the quiz!)

$$2\sqrt{2} = \sqrt{8}$$

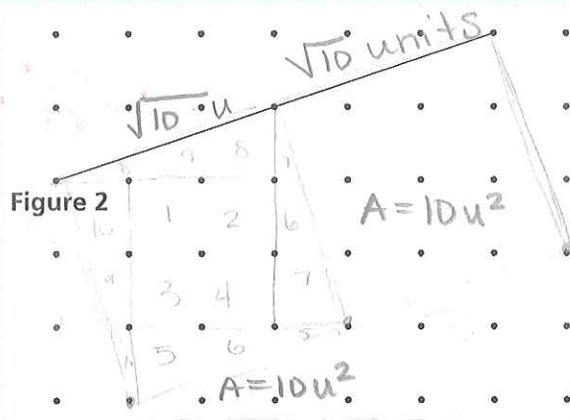
$$\sqrt{4 \cdot 2}$$

$$\sqrt{4} \cdot \sqrt{2}$$

$$2\sqrt{2} = 2\sqrt{2}$$

✓

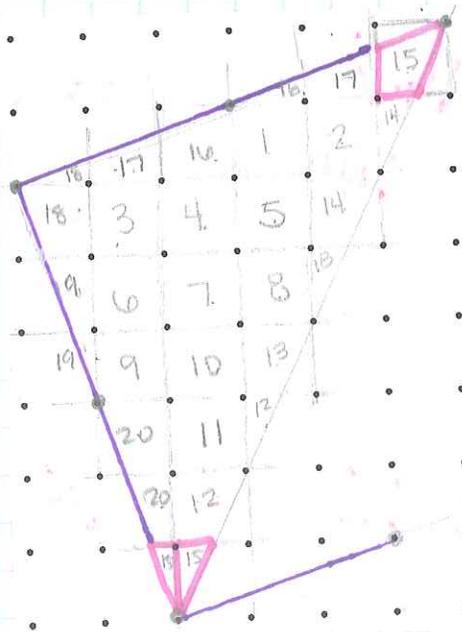
2. Way #1



$$\sqrt{10} + \sqrt{10} = 2\sqrt{10}$$

Way #2:

When I drew a square off of the whole line segment, the square did not fit on my grid.



So, I found that half of

the square was  $20u^2$ , so the whole square must be  $2(20)u^2$  or  $40u^2$ .

Since  $\sqrt{\text{Area}} = \text{side length}$ :      Area = 40  
side = ?

$$\sqrt{40} = \text{side length}$$