Alexa created a drawing to show the area of Noah's rectangle of fabric. Each side of Zara's square of fabric is **y** inches.

Alexa also wrote the following equation to represent the area of Noah's rectangle of fabric

 $(y + 4) \cdot (y + 3) = y^2 + (4 \cdot y) + (y \cdot 3) + 12$ 



1. **Make a drawing** of Noah's rectangular fabric when **y** = **2** inches. Label all the lengths, widths, and areas.

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2. **Underline each part** of Alexa's equation that represents a **length.** For each part, specify which length it is.

$$(y + 4) \cdot (y + 3) = y^2 + (4 \cdot y) + (y \cdot 3) + 12$$

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3. **Underline each part** of Alexa's equation that represents a **width.** For each part, specify which width it is.

$$(y + 4) \cdot (y + 3) = y^2 + (4 \cdot y) + (y \cdot 3) + 12$$

\_\_\_\_\_ is the width of \_\_\_\_\_\_ \_\_\_\_ is the width of \_\_\_\_\_\_ \_\_\_\_ is the width of \_\_\_\_\_\_

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MathTalk.org Learning through Dialogue 4. **Underline each part** of Alexa's equation that represents an area. For each part, specify which area it is.

$$(y + 4) \cdot (y + 3) = y^2 + (4 \cdot y) + (y \cdot 3) + 12$$

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