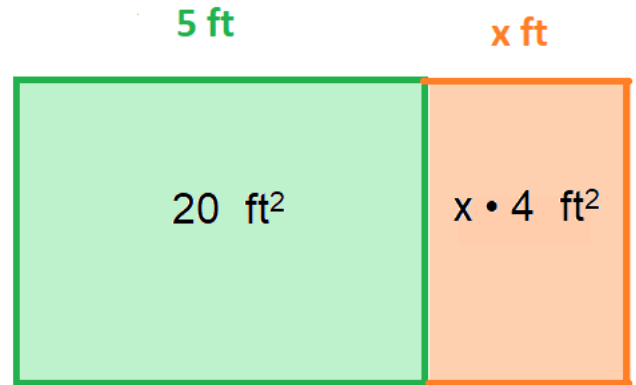


Another student, Mia, created this drawing to show the area of Jamal’s new garden, when he increases the length of his original garden by some unknown number of feet, x .

Mia also wrote the following equation to represent the area of Jamal’s new garden:



$$(5 + x) \cdot 4 = 5 \cdot 4 + x \cdot 4$$

1. **Write a sentence** explaining what each part of the **left-hand side** of Mia’s equation means in the garden context.

A. **5** represents _____

B. **x** represents _____

C. **5 + x** represents _____

D. **4** represents _____

E. **(5 + x) • 4** represents _____



2. **Write a sentence** explaining what each part of the **right-hand side** of Mia's equation means in the garden context.

A. **5** represents _____

B. **4** represents _____

C. **$5 \cdot 4$** represents _____

D. **$5 + x$** represents _____

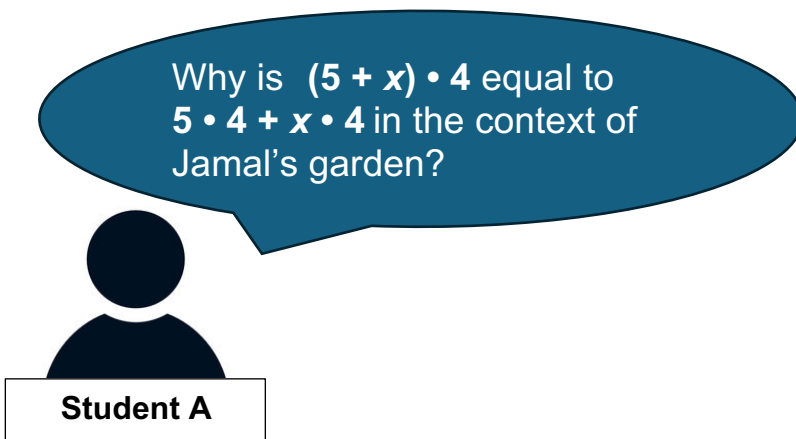
E. **x** represents _____

F. **$x \cdot 4$** represents _____

G. **$5 \cdot 4 + x \cdot 4$** represents _____



3. Suppose your friend Student A asks the following question.



Why is $(5 + x) \cdot 4$ equal to $5 \cdot 4 + x \cdot 4$ in the context of Jamal's garden?

Student A

Respond to Student A's question by using an **explanation** of what parts of Mia's equation mean in terms of Jamal's garden.

Explanation:



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