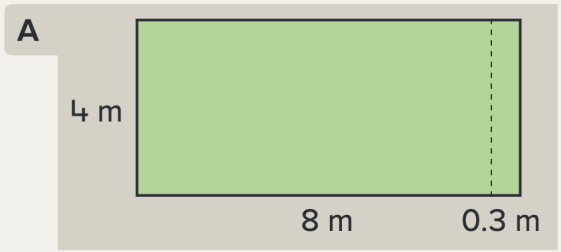
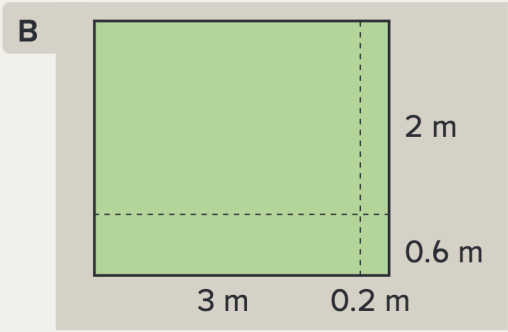
10.5 Decimal fractions: Multiplying two decimal fractions using partial products

Step In

Brady uses the partial-products strategy to solve two separate equations.

He draws these two pictures to help.





Write the side lengths that you think he was trying to multiply.

A _____ × _____

B _____ × _____

How would you calculate the product for Example A? What partial products would you add?

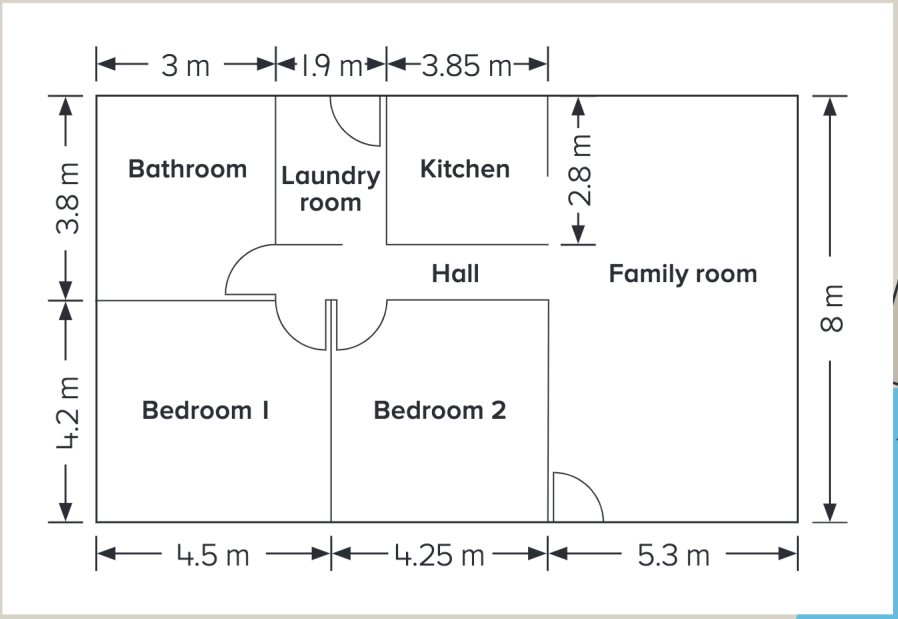
How many partial products must you add to solve Example B? What is the total product?

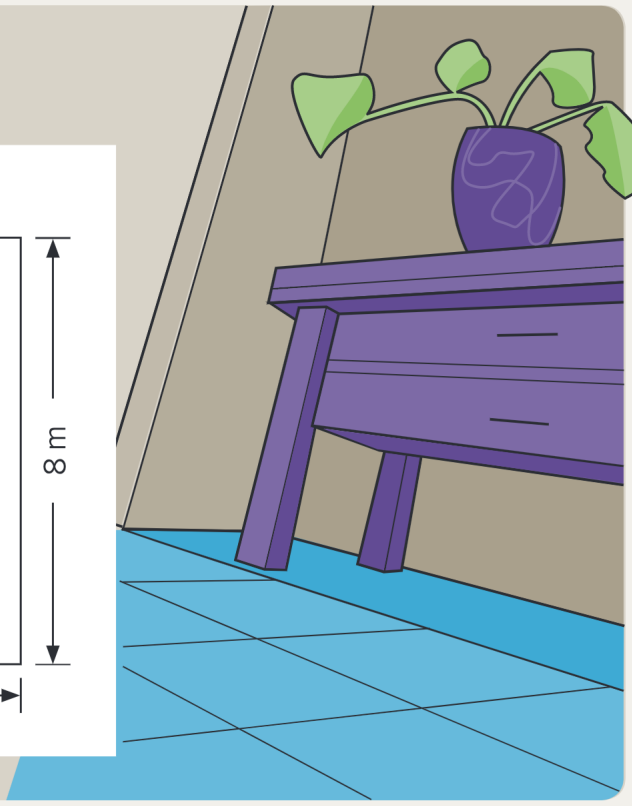
Each example splits the decimal fractions into parts that are easier to multiply.

How could you use the same thinking to calculate 5.1 × 8.25?

Step Up

Use this apartment floor plan to answer the questions on page 371.





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Estimate, then calculate the area of each room on the plan on page 370.

a. Bedroom 1

Estimate _____ m^2

_____ m^2

b. Family room

Estimate _____ m^2

_____ m^2

c. Bathroom

Estimate _____ m^2

_____ m^2

d. Bedroom 2

Estimate _____ m^2

_____ m^2

e. Laundry room

Estimate _____ m^2

_____ m^2

Step Ahead

Calculate the area of the whole apartment on page 370. Show your thinking.

_____ m^2

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