

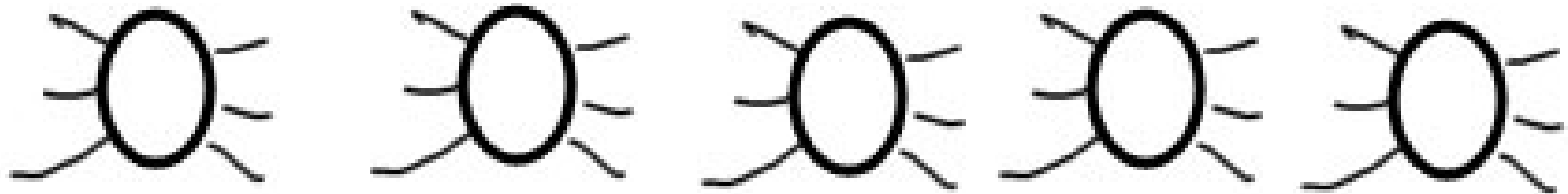
Multiplication & Division

Cognitively Guided Instruction

Multiplication (Direct Modeling)

A bee has 6 legs.

How many legs do 5 bees have?



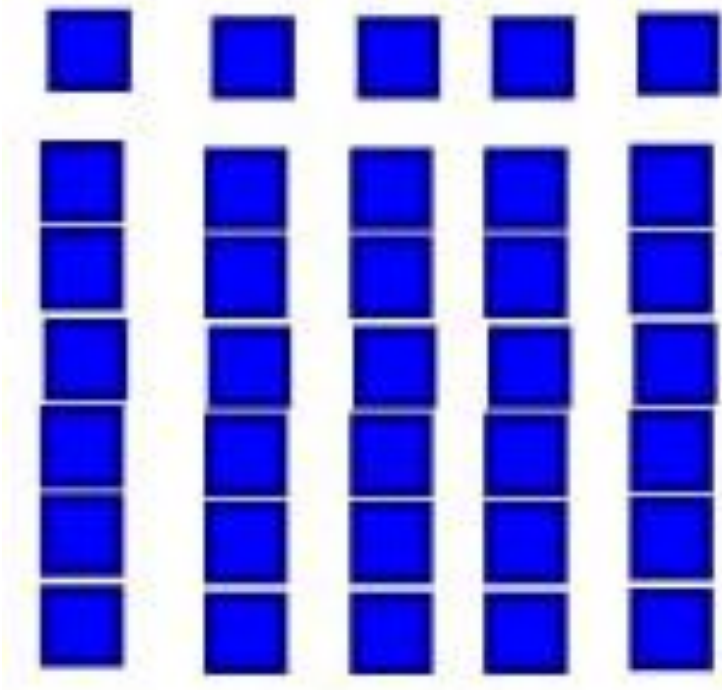
This represents $6+6+6+6+6$.



Multiplication (Direct Modeling)

A bee has 6 legs.

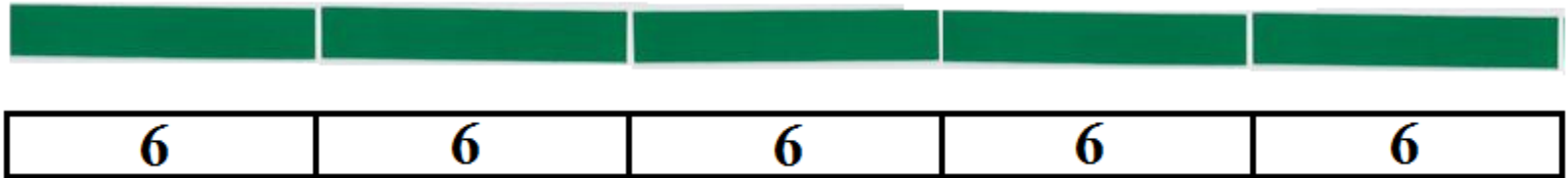
How many legs do 5 bees have?



More Abstract

A bee has 6 legs.

How many legs do 5 bees have?



$$5 \times 6 = 30$$

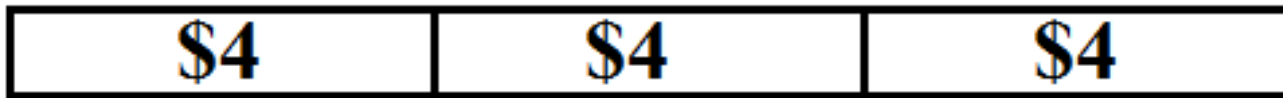
multiplier

multiplicand

product

Multiplication (Problems with Rate)

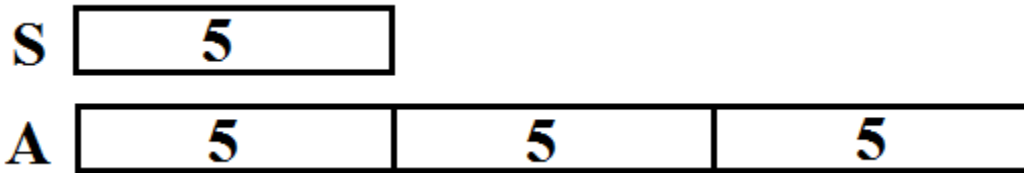
Jacob earns \$4 per hour for raking leaves. If he rakes for 3 hours, how much would he earn?



This represents $4+4+4$.

Multiplication (Comparison)

Sarah has 5 Silly Bandz. Amy has three times as many Silly Bandz as Sarah. How many Silly Bandz does Amy have?



This represents $5+5+5$.