Grade 5 Unit 3
Lesson 20
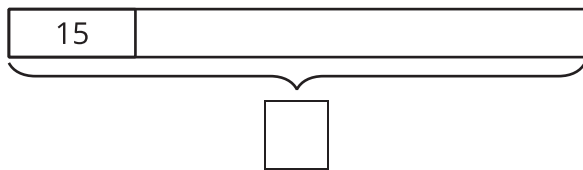CC BY 2021 Illustrative Mathematics®

Unit 3 Lesson 20: How Much in the Group?

WU Estimation Exploration: What Number Goes in the Blank? (Warm up)

Student Task Statement

What number goes in the blank?

15	

Record an estimate that is:

too low	about right	too high

1 Different Equations

Student Task Statement

1. If $\frac{1}{3}$ of the class is 9 students, how many students are in the class?

   Explain or show your reasoning.

2. Explain how each of these equations represents this situation.

   a. $\frac{1}{3} \times \underline{\hspace{1cm}} = 9$

b. _____ $\div 3 = 9$

c. $3 \times 9 =$ _____

2 How Big is the Class?

Student Task Statement

1. Jada's class has 24 students in it. That is $\frac{1}{4}$ of the total students in the 5th grade. How many students are in the 5th grade? Explain or show your reasoning.

2. Select **all** the equations that represent this situation.

A. $\frac{1}{4} \times 24 =$ _____

B. _____ $\div 4 = 24$

C. $\frac{1}{4} \div 24 =$ _____

D. $24 = \frac{1}{4} \times$ _____

3 How Many in One Group?

Student Task Statement

Solve each problem. Show or explain your reasoning.

1. 250 mg of calcium is $\frac{1}{4}$ of the daily recommended allowance. What is the daily recommended allowance of calcium? Show or explain your reasoning.

2. A rocket took 60 days to get $\frac{1}{5}$ of the way to Mars. How many days did it take the rocket to get to Mars? Show or explain your reasoning.