Sub-Unit 1 | Summary

In this sub-unit . . .

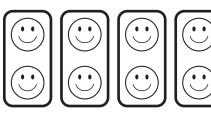
 We thought about <u>division</u> as the mathematical operation related to separating or splitting things into equal groups.

Here are 8 students in 2 equal groups.



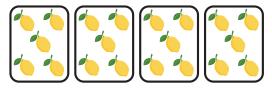


Here are 8 students in groups of 2.



- **Math tip:** In division problems, you are always given the total number of objects and are trying to determine either the number of groups or the number in each group.
- We used equal-groups drawings and diagrams to represent and solve division problems.

Total	Number of groups	Number in each group
20	4	5



We wrote equations to represent division problems.

12 total number of objects divisor
2 =
number of
groups or objects
in each group

quotient
6
objects in each
group or number
of groups

Sub-Unit 2 | Summary

In this sub-unit . . .

 We wrote multiplication and division equations to represent the same division problem because division can be represented as an unknown factor.

$$4 \times ? = 20$$

$$20 \div 4 = ?$$

 We used multiplication and division flexibly to solve equal-groups problems.

A farmer has 20 apples. He puts an equal number of apples in 4 boxes. How many apples are in each box?

I can make a drawing with 4 groups and put 1 apple in each group until I have 20 total.

I can think about what number multiplied by 4 equals 20.

 We used multiplication facts we know to identify related multiplication and division facts.

If I know
$$5 \times 7 = 35$$
, then I know $7 \times 5 = 35$, $35 \div 5 = 7$, and $35 \div 7 = 5$.

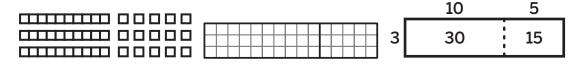
Math tip: You can use the Commutative Property of Multiplication and the relationship between multiplication and division to determine related facts from known facts.

Sub-Unit 3 | Summary

In this sub-unit . . .

 We multiplied with factors greater than 10 using place value and properties of operations.

 We represented multiplication with factors greater than 10 using base-ten blocks, gridded rectangles, and area models.



 We identified known and unknown information and then used addition, subtraction, and multiplication to solve two-step problems.

The farmer collected 250 seeds. He filled 4 seed packets by placing 21 seeds in each packet. He planted the rest of the seeds in 2 neat rows. How many seeds did the farmer plant?

