Name _____

Solve & Share

Six friends picked 48 grapefruits. They want to share them equally. How many grapefruits should each friend get?

Lesson 3
Division: How Many in Each Group?

I can ...
use objects or pictures to show how objects can be divided into equal groups.

I can also model with math to solve problems.

Model with math. Using objects or drawing a picture that represents the problem can help you solve it.

Look Back! How can you use counters to help solve this problem? Explain.

Essential Question **How Many Are in Each Group?**

A

Three friends have 12 toys to share equally. How many toys will each friend get?

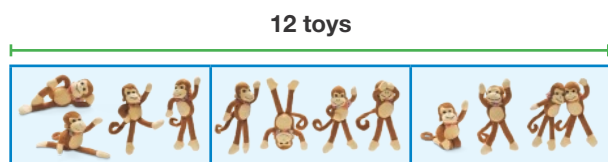*Think of arranging 12 toys into 3 equal groups.*

Division is an operation that is used to find how many equal groups there are or how many are in each group.

B **What You Think**

Put one toy at a time in each group.

12 toys

↑
4 toys for each friend

When all the toys are grouped, there will be 4 in each group.

C **What You Write**

You can write a division equation to find the number in each group.

$$12 \div 3 = 4$$

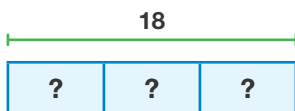Total | Number of equal groups | Number in each group

Each friend will get 4 toys.

Convince Me! **Be Precise** What would happen if 3 friends wanted to share 13 toys equally?

Tools

☆ Guided Practice

Do You Understand?

1. Eighteen eggs are divided into 3 rows. How many eggs are in each row? Use the bar diagram to solve.

18		
?	?	?

$18 \div 3 = $ _____ eggs

2. Can 12 grapes be shared equally among 5 children with no grapes remaining? Explain.

Do You Know How?

In **3** and **4**, draw a picture to solve.

3. Fifteen bananas are shared equally by 3 monkeys. How many bananas does each monkey get?

4. Sixteen plants are divided equally into 4 pots. How many plants are in each pot?
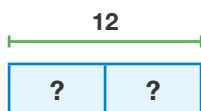
☆ Independent Practice ☆
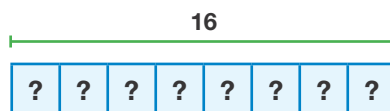
In **5** and **6**, draw a picture to solve.

5. Eighteen marbles are divided equally into 6 sacks. How many marbles are in each sack?

6. Sixteen crayons are shared equally by 2 people. How many crayons does each person have?

In **7–10**, complete each equation.

7. $12 \div 2 = \square$

12	
?	?

8. $16 \div 8 = \square$

16							
?	?	?	?	?	?	?	?

9. $9 \div 3 = $ _____

10. $14 \div 7 = $ _____

11. Jim is putting 18 pens into equal groups. He says if he puts them into 2 equal groups he will have more pens in each group than if he puts them into 3 equal groups. Is Jim correct? Explain.

12. Make Sense and Persevere Ms. Terry's class is hosting a fundraising challenge. The students in her class are divided into 4 teams. Each team has an equal number of students. Do you have enough information to find how many students are on each team? Explain.

13. Erika draws a hexagon. Maria draws a pentagon. Who draws the shape with more sides? How many more sides does that shape have?

14. The flag bearers in a parade march in 9 rows with 5 flags in each row. Write an equation to show how many flags there are.

15. Number Sense Jenn and some friends share 40 jellybeans equally. Is the number that each friend gets greater than 40 or less than 40? Explain.

16. Higher Order Thinking Joy has 12 shells. She gives 2 shells to her mom. Then she and her sister share the rest of the shells equally. How many shells does Joy get? How many shells does her sister get? How do you know?

Assessment Practice

17. Which of the following contexts does the expression 14 ÷ 2 represent?

ⓐ 14 pens arranged in 14 equal groups

ⓑ 2 pens arranged in 14 equal groups

ⓒ 14 pens arranged in 2 equal groups

ⓓ 2 pens arranged in 2 equal groups

18. Which of the following contexts does the expression 12 ÷ 3 represent?

ⓐ 12 books arranged equally on 3 shelves

ⓑ 12 books arranged equally on 12 shelves

ⓒ 3 books arranged equally on 12 shelves

ⓓ 3 books arranged equally on 3 shelves