

# Ensuring Instructional Task Quality in Mathematics

Leadership II - Grades K-5 - Day 3



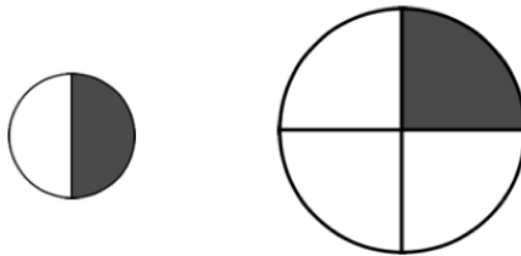
# High-Quality Tasks?

Why? Why Not?

[3.NF.A.3.D]

Robert ate  $\frac{1}{2}$  of a small pizza. Elizabeth ate  $\frac{1}{4}$  of a large pizza. Elizabeth says, “My piece was larger than yours, so that means  $\frac{1}{4} > \frac{1}{2}$  .”

Is Elizabeth correct? Explain your answer.



Why? Why Not?

[4.OA.A.3]

4. During National Recycling Month, Mr. Yardley’s class spent 4 weeks collecting empty cans to recycle.

Week	Number of Cans Collected
1	10,827
2	
3	10,522
4	20,011

- a. During Week 2, the class collected 1,256 more cans than they did during Week 1. Find the total number of cans Mr. Yardley’s class collected in 4 weeks.

# K–5 Tasks

## 2.OA.1

Solve and show your strategy.

- 39 books were on the top bookshelf. Marcy added 48 more books to the top shelf. How many books are on the top shelf now?

<https://www.engageny.org/file/93041/download/math-g2-m4-topic-a-lesson-5.docx?token=6vGvsvHQ>

## 2.MD.10

- A woman ran a lot. She drank water while she ran. She wrote down how much she drank over the last 3 hours.

1st Hour: 8 ounces

2nd Hour: 16 ounces

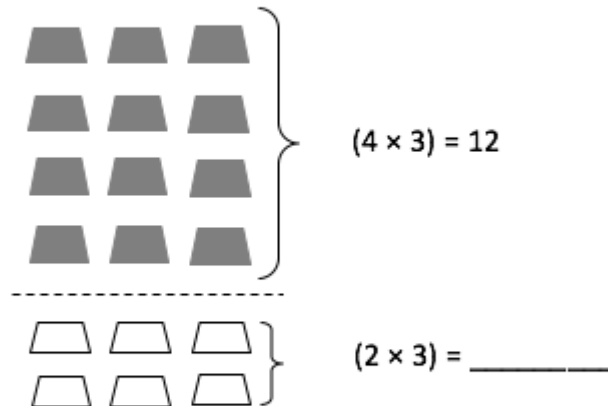
3rd Hour: 24 ounces

Create a pictogram to show the data.

Created by Doug Sovde for purposes of this session.

## 3.OA.5

1.  $6 \times 3 =$  \_\_\_\_\_



$12 +$  \_\_\_\_\_  $=$  \_\_\_\_\_

$6 \times 3 =$  \_\_\_\_\_

<https://www.engageny.org/file/40821/download/math-g3-m1-topic-c-lesson-10.docx?token=0MnV4rpi>

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#### 4.OA.3

Karl's rectangular vegetable garden is 20 feet by 45 feet, and Makenna's is 25 feet by 40 feet. Whose garden is larger in area? Show your reasoning.

Adapted from: Illustrative Mathematics: <https://www.illustrativemathematics.org/content-standards/4/OA/A/3/tasks/876>

#### 5.NBT.7

### Task

- a. Jessa has 23 one-dollar bills that she wants to divide equally between her 5 children.
  - i. How much money will each receive? How much money will Jessa have left over?
  - ii. Jessa exchanged the remaining one-dollar bills for dimes. If she divides the money equally between her 5 children, how much money will each child get?
- b. A website has games available to purchase for \$5 each. If Lita has \$23, how many games can she purchase? Explain.
- c. A jug holds 5 gallons of water. How many jugs can Mark fill with 23 gallons of water? Explain.
- d. A class of 23 children will take a field trip. Each car can take 5 children. How many cars are needed to take all the children on the field trip? Explain.
- e. Write a division problem for  $31 \div 4$  where the answer is a mixed number. Show how to solve your problem.

From Illustrative Mathematics: <https://www.illustrativemathematics.org/content-standards/5/NBT/B/7/tasks/292>