

GRADE THREE - CONTENT STANDARD #2
ACTIVITY G
Permission Granted

PICTURING DIVISION

In this lesson, students explore representing division problems with Base Ten Blocks. They connect the concrete to the abstract by recording with paper Base Ten Blocks. Use to build a strong mental image as students are learning the division algorithm.

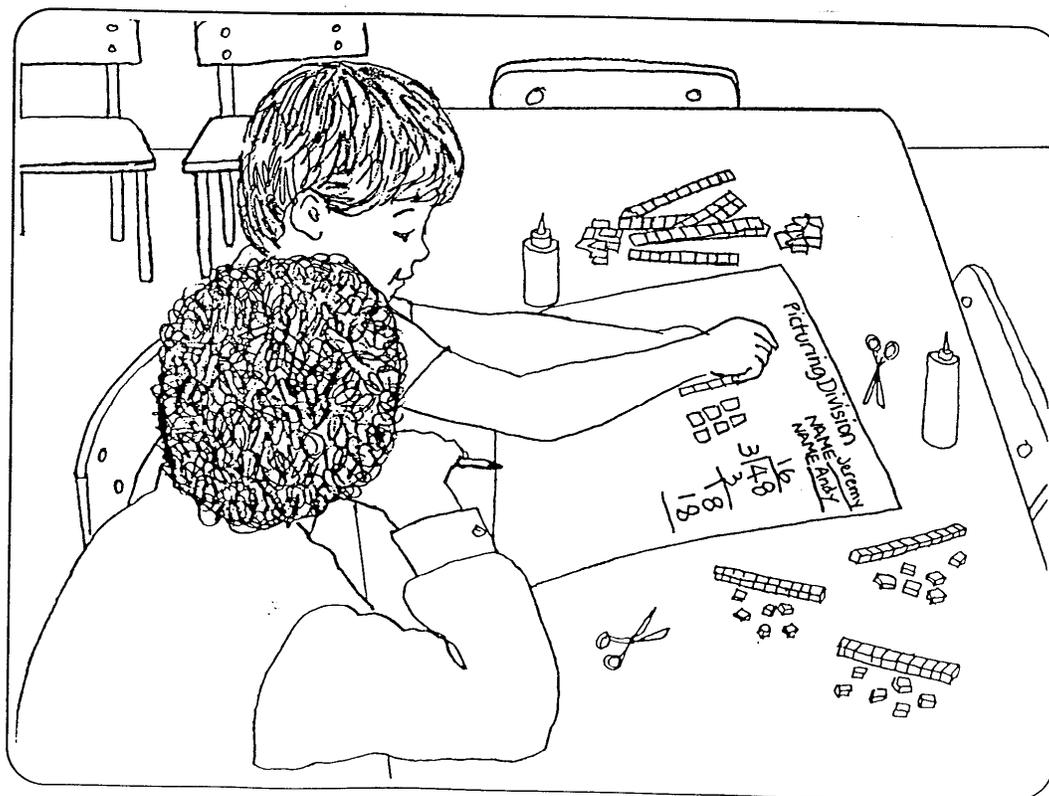
Classroom Organization

Eight groups of four sharing materials
Working together

Materials

Each group of four students will need these materials:

- Base Ten Blocks: 18 tens-blocks, 37 ones-blocks
- 4 copies of Picturing Division Recording Sheet, page A.18a
- 4 copies of each page of Paper Base Ten Blocks, pages A.19-20, duplicated on colored paper
- Scissors and paste



[Source: [Connections-Linking Manipulatives to Mathematics-Grade 3](#), Creative Publications, Inc.]

Introducing the Problem

Today you are going to use your blocks to try to make a picture of a division problem.

What do you think a picture of a division problem looks like?

Exploring with Base Ten Blocks

$$3 \overline{)48}$$

1. Show this problem to the students
2. Tell them to work in their groups to make a picture of the problem using Base Ten Blocks. They should use those blocks to find the solution to the problem.
3. Discuss the different ways the groups used the blocks to make a picture of the division problem and find its solution.

Recording the Connection

1. Have the students show a picture of the division problem by pasting paper Base Ten Blocks onto a copy of the recording sheet. Have the students solve the problem with numbers and write the answer.
2. Students should then write a few sentences at the bottom of the recording sheet, telling about how their group used the blocks to show a picture of the problem.

[Source: Connections-Linking Manipulatives to Mathematics-Grade 3, Creative Publications, Inc.]

Picturing Division

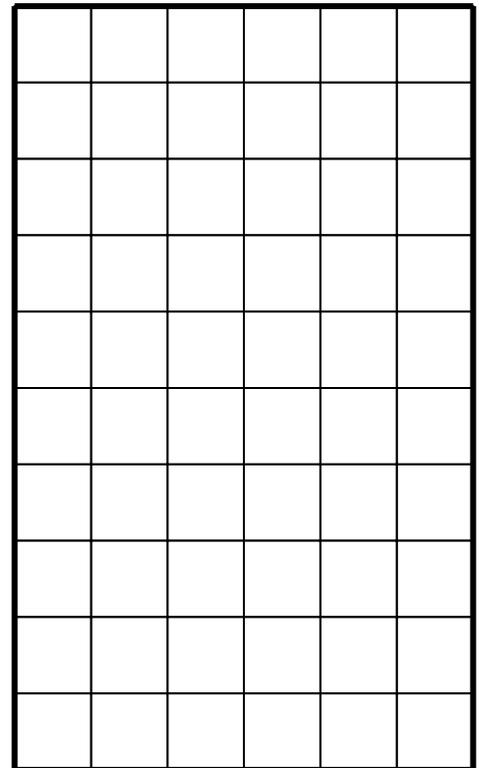
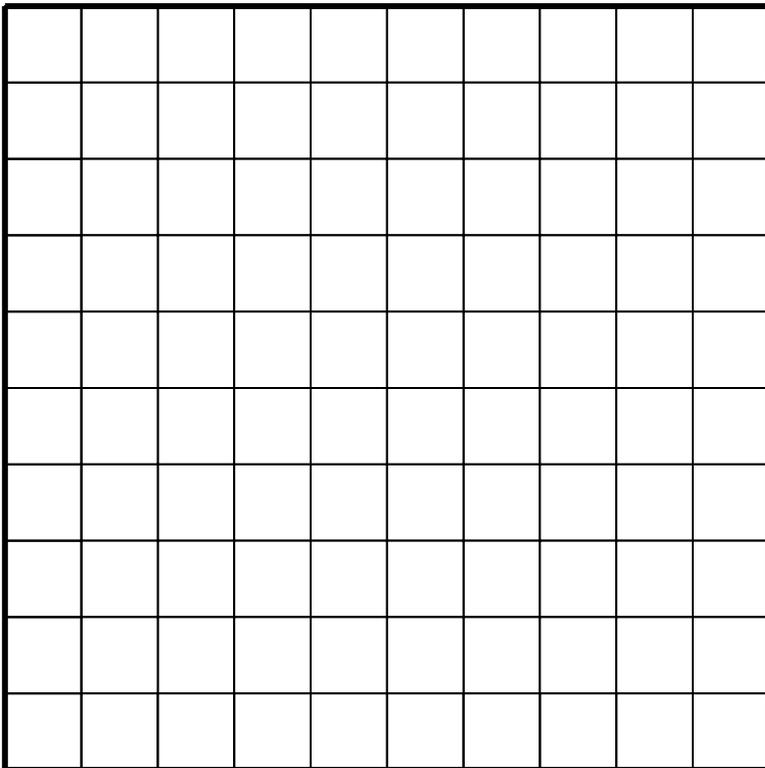
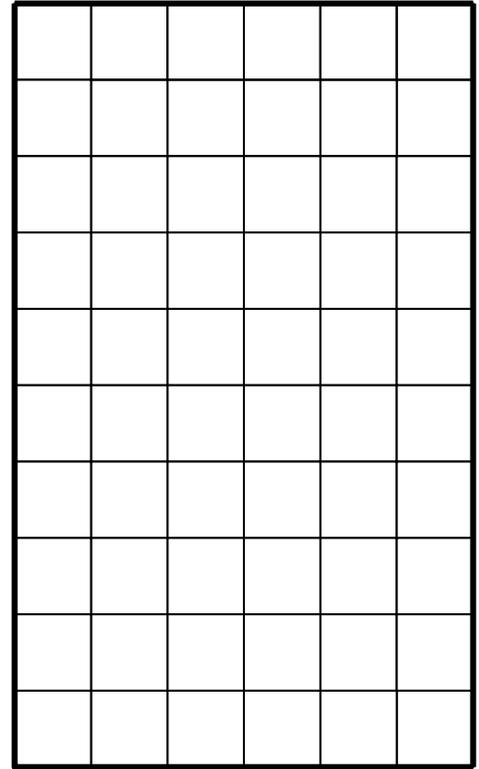
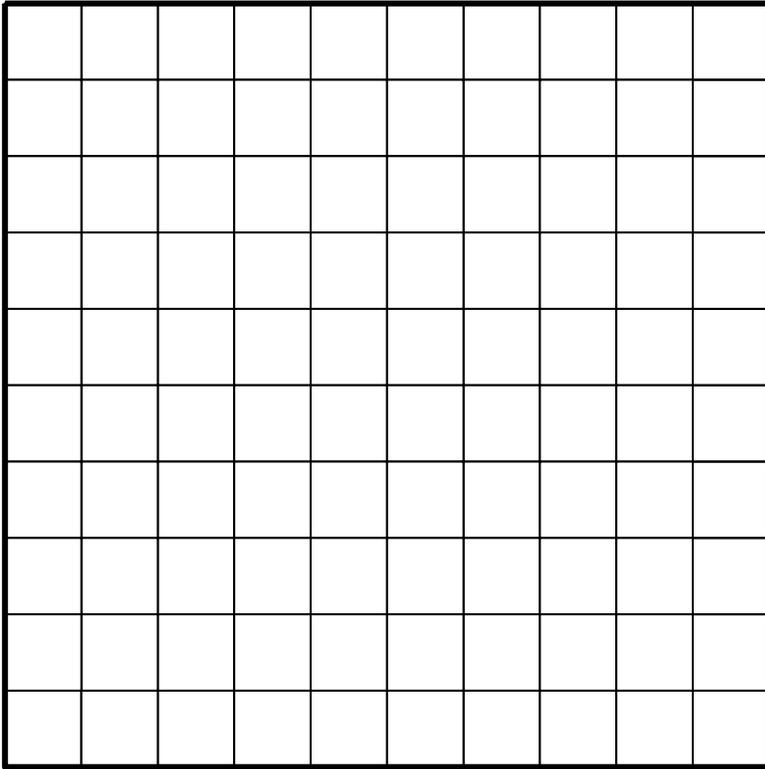
Names _____

$$3 \overline{)48}$$

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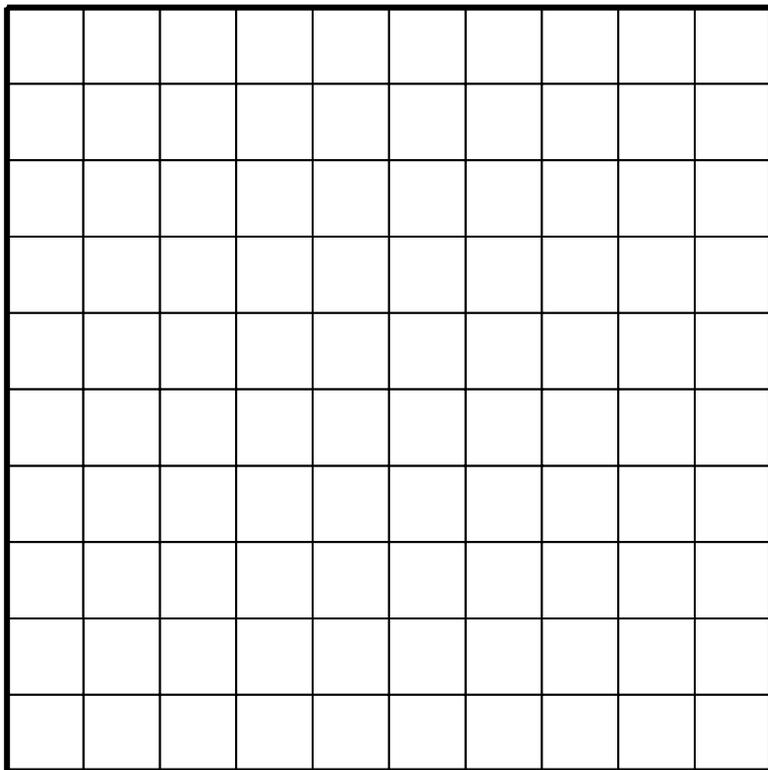
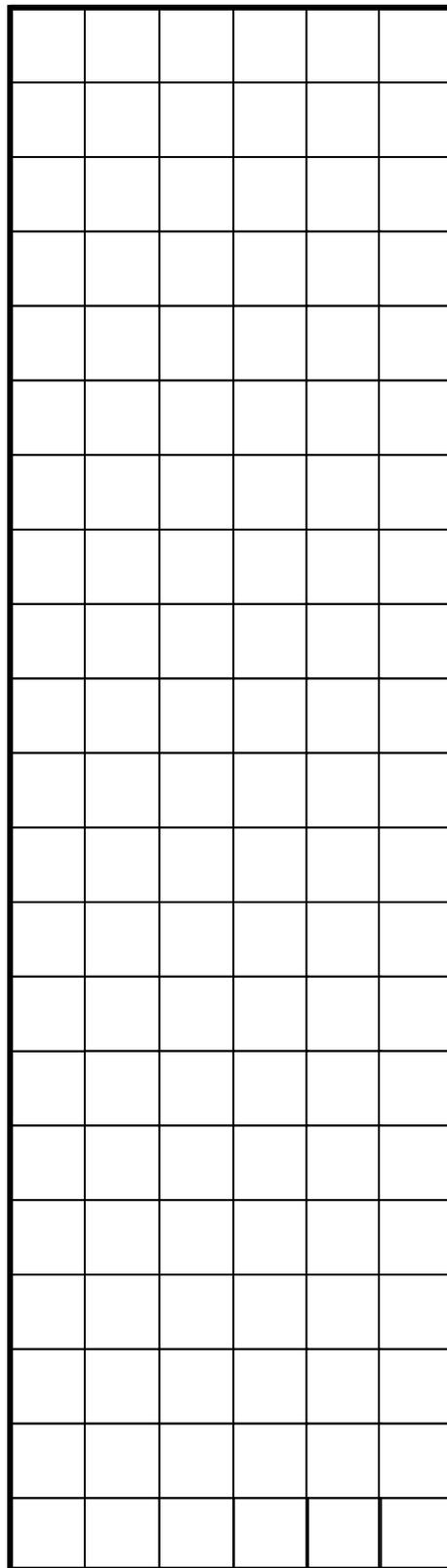
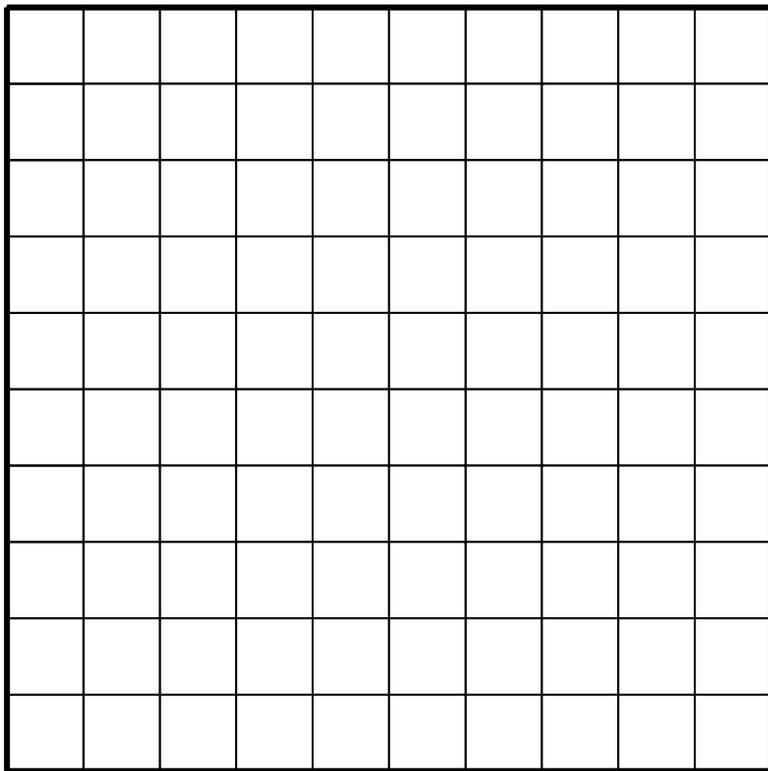
A.18-a

Paper Base Ten Blocks



[Source: [Connections-Linking Manipulatives to Mathematics-Grade 3](#), Creative Publications, Inc.]

Paper Base Ten Blocks



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