Unit 5 Module 3 Session 1

Problems & Investigations- Sharing & Grouping Problems

Getting Ready-

- ™ T1 Sharing & Grouping Forum Planner
- SB 163-164 More Story Problems
- Colored tiles
- Red linear pieces
- Magic Wall/ Magnetic Tiles
- Student Math Journals
- Class guidelines for writing and answering story problems (from Module 1, Sessions 5 and 6; see Preparation)

Vocabulary

Array

Column

Dividend

Division

Divisor

Group

Quotient

Row

Share

- Interpret quotients of whole numbers and write story problems or describe problem situations to match a division/multiplication expression or equation
- Solve for the unknown in a division equation involving 3 whole numbers
- Write equations with a letter standing for the unknown quantity to represent two-step story problems
- Fluently divide with dividends to 100 using strategies
- Solve two-step story problems using multiplication and division

Guidelines for Writing Story Problems

1. Make an interesting, challenging problem.
   - More than one step.
   - More than one operation.
   - Division with grouping.
   - Extraneous information.
2. Don't give away the answer.
3. Use factors between 3 and 15.
4. Products or dividends should be under 125.
5. Give the reader enough information to solve your problem.

Remember: If it takes less than a minute to solve, it's probably too easy. If you can't solve it yourself, it's too hard.

Let's review

Writing Good Story Problem Answers

- Show your thinking step by step. Tell people what you did first, then second, then third, etc.
- You can use pictures, numbers, or words to show your work. You need to use at least 2 of these ways to be clear.
- Use equations to show how you solved the problem. Be sure to use the right symbols (+, −, =, ×, ÷).
- If you draw pictures, be sure to label them so everyone knows what they mean. Also be sure to make them neat and use the same symbol for each thing.
- Use neat handwriting, and don't forget your name.

More Story Problems
Today's Date

NAME | DATE

More Story Problems page 1 of 2

1 Write your own story problem to fit this equation: $7 \times 5 = m$

1. What does 7 times 5 mean?
2. Write a story problem in your journal using our rules

Now try this one

2 Write your own story problem to fit this equation: $35 \div 5 = n$

For problems 3-10

Solve each problem in your math journal. Show your thinking using numbers, labeled sketches, or words. Then write an equation that represents the problem and the solution on this page.

I will be choosing students today to share in our forum in our next session.

3 Ms. Rowan has 6 tables in her classroom, and 24 students. If she divides the students evenly among the tables, how many students will sit at each table?

4 Teresa has 24 stickers in her sticker book. Each page holds 6 stickers. How many pages does her sticker book have?

5 Steve baked 36 cookies. He put 4 cookies in each bag. How many bags of cookies did he have?

6 Craig gave his sister 4 boxes of new markers. She was happy to get 36 new markers. How many markers were in each box, if each box held exactly the same number of markers?

7 Ms. Allyn was getting ready for a math investigation. Each student needed 8 paperclips. She had 32 paperclips. How many students were able to do the investigation?

8 The math club was going on a field trip. They were driving 8 school vans. If there were 32 students in the math club, and each van took the same number of students, how many students went in each van?

9 Each student in the gym class gathered 4 tennis balls. There were 25 students in the class. Then, the gym teacher divided the balls evenly into 20 different buckets. How many balls are in each bucket?

Which equation would help you solve this problem?

- ○ $(4 + 25) \times 20 = b$
- ○ $(4 \times 25) + 20 = b$
- ○ $(20 \div 4) - 24 = b$
- ○ $(4 \times 25) \div 20 = b$

10 **CHALLENGE** Mr. Garner gathered $6.50 from each student going to a music festival. He needed to divide the money evenly to pay the field trip helpers: the bus driver, the lunchroom lady, the person running the festival, and the photographer. He has 26 students going to the festival. How much money did he pay each field trip helper?

Work Places

4A Tic-Tac-Tock

4B Measurement Scavenger Hunt

4C Target One Thousand

4D Hexagon Spin & Fill

5A Solving Game Store Problems

5B Scout them Out

Daily Practice

SB 165 Division Practice

Home Connection

HC 91-92 More Number Puzzles