Word Problems: Interpreting Remainders

Materials: Interpreting Remainders word problem cards

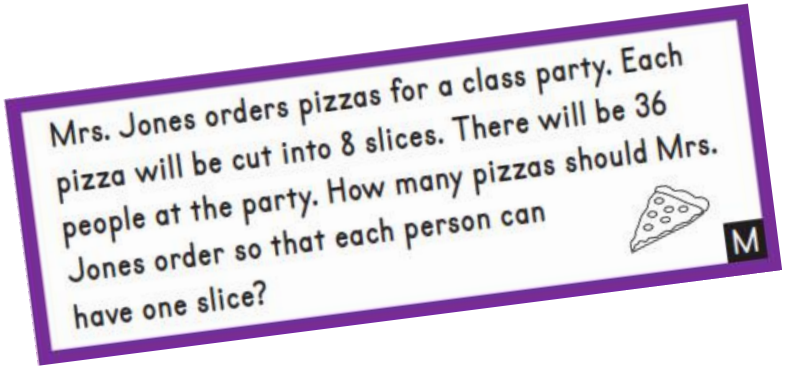
1. Work with a partner. Choose five problems that you will both solve.

2. Solve the word problems independently. For each problem:

   a) write an equation to represent the problem
   b) use a model to represent the problem
   c) carry out the operation in the equation to solve the problem
   d) indicate how you interpreted the remainder. Did you:
      - add one to the quotient?
      - ignore the remainder and use only the quotient?
      - use the remainder as your solution?

3. After completing five problems share your work with a partner. Use mathematical vocabulary to explain how you solved each problem.

4. Repeat with another five problems from the set.



Books are on sale for $7. Peter has $30.00 in his wallet. How many books can he buy?

A

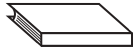
A teacher bought a packet of 17 batteries. Each calculator uses 3 batteries. How many calculators can the teacher fill with batteries?

B

There are 32 students in a 4th grade class. Each table in the classroom seats 6 students. How many tables will be needed?

C

Meg has a new bookcase with 6 shelves. Each shelf holds 8 books. If Meg has 50 books, how many books will not fit on the bookcase?



D

There are 37 people seated in a cafeteria. Each table holds 2 people. Only one table is not full. How many full tables are there?

E

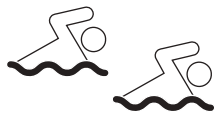
Jack is moving houses and needs to pack 38 books into small boxes. He packs 6 books in each box. How many books do not fit into boxes?

F

Kate baked 84 muffins. If each muffin tray held 9 muffins, how many trays did Kate use?

G

There are 56 students in a school swimming team. How many relay teams of 6 can the students make?



H

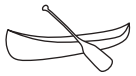
A teacher places 55 books onto shelves. Each shelf holds 9 books. How many shelves do the books fill?

I

A farmer packs 46 apples into trays for market. Each tray holds 6 apples. How many apples are in the partially filled tray?

J

39 students choose to go canoeing at a school camp. No more than 4 students are allowed in each canoe. What is the minimum number of canoes needed for all 39 students to participate?

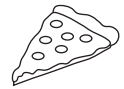


K

62 fourth grade students are going on a field trip to the museum and will travel by car. If each car holds 4 students, how many cars will be needed?

L

Mrs. Jones orders pizzas for a class party. Each pizza will be cut into 8 slices. There will be 36 people at the party. How many pizzas should Mrs. Jones order so that each person can have one slice?

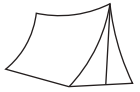


M

A factory packed 85 teddy bears into large boxes for delivery to a toy store. Each large box held 9 teddy bears. The remaining bears were packed in a small box. How many teddy bears were packed in the small box?

N

32 athletes are going camping for the weekend. Three athletes can sleep in one tent. What is the minimum number of tents that will be needed?



O

Write and solve your own word problem that includes a remainder which needs to be interpreted.

P