

Reteaching Page

3.9 Interpret the Quotient

When you divide, sometimes you need to interpret the quotient to decide what to do with the remainder. If you are planning to put 67 children on busses, you can not leave some behind. To interpret the quotient, you must decide what the question is asking.

If the problem asks for **an exact number** – use the entire quotient.

If the problem asks for **a number whole groups** – drop the remainder.

If the problem asks for **a number to fit the whole groups into** – round the remainder up to the next whole number.

A class of 26 students will be completing an experiment in Science. For safety reasons, Mr. Johnson does not want more than 4 children in each group. How many groups will he have?

Do we need an exact number of students per group? _____

Are we looking for a whole number of groups? _____

Are we trying to fit 26 kids into groups? _____

As you see, if you go with six groups of four, two of the students will not be able to participate.

We will need 7 groups of **about** 4. Mr. Johnson will probably make 5 groups of 4 and 2 groups of 3.

The Girl Scouts are packing cookies into crates. Each crate holds 12 boxes of cookies. The Girls hope to pack 78 boxes of cookies. How many full crates will they make?

$78 \div 12 = 6 \text{ r } 6$. They will need 7 crates to fit all of the boxes, but how many crates will be **full**?

- _____ 1) Big Jack Pizza uses 21 cups of shredded cheese to make 14 pizzas. How much cheese is used on each pizza?
- _____ 2) Anthony's mother collects porcelain keepsakes. She has 147 of the finest collectables available and her favorites are the lovable bears. She is thinking about buying a set of display cases to keep her collection in. Each display case will hold 16 keepsakes. How many cases will she need to buy to display her entire collection?
- _____ 3) The Beta Club is going to sell pencil packs to raise money. They purchased 100 pencils for \$3.00 and are going to sell packs of 6 for \$0.50 per packs. How many packs will they be able to make?