**Problem Types**

* **The structure of a problem determines its level of difficulty.**
* **The structure of a problem determines the strategies that students may develop/use to solve it.**
* **The context of the problem affects the difficulty of a problem.**
* **Abstract concepts like: time, distance, and volume can make a problem more challenging to solve as opposed to problems where students can count discrete objects.**
* **By including measurement (time, distance, and volume) you encourage students to explore new tools and develop their understanding of the geometry content standards.**
* **Multiple problem types can be combined to create multiple step problems.**

**Multiplication/Grouping Problems**

Mrs. Moore has \_\_ boxes with \_\_ crayons inside each box. How many crayons does Mrs. Moore have?

John has \_\_ bags of candy. There are \_\_\_ pieces of candy inside of each bag. How many pieces of candy does John have?

There are \_\_ baseball teams. Each team gets \_\_\_ baseballs. How many baseballs are there?

Stephanie is using \_\_ muffin pans to make muffins. \_\_ muffins can fit onto a pan. How many muffins can Stephanie make?

Trey put \_\_\_ toy cars into each container. Trey has \_\_ containers of cars. How many cars does Trey have?

The school rented \_\_\_ buses for the field trip. \_\_ kids can fit onto each bus. How many kids can ride on the bus to the field trip?

The city of Long Beach has \_\_\_ soccer teams. There are \_\_\_ kids on each team. How many kids are playing soccer in Long Beach?

The airline company has \_\_ airplanes. \_\_\_ people can fit onto each plane. How many people can ride on all of the planes?

The hotel bought \_\_ sofas. \_\_ people can fit on each sofa. How many people can fit on all of the sofas?

\_\_\_ tables will fit into the restaurant. \_\_ people can fit at each table. How many people can sit in the restaurant?

There are \_\_\_ classrooms in the school. \_\_ students can fit into each classroom. How many students can go to the school?

There are \_\_ shelves in the library. \_\_\_ books can fit onto each shelf. How many books can fit onto the library shelves?

**Array**

A developer paved \_\_\_ streets with \_\_ homes on each street. How many homes did the developer make?

Mary baked \_\_\_ rows of cookies with \_\_\_ cookies on each row. How many cookies did Mary make?

**Area**

A builder is building a room that is \_\_\_ feet long along one wall and \_\_\_ feet long on the adjacent wall. How many square feet is the room?

**Grouping (Multiplicative Comparison)**

The tree is \_\_\_ times as tall as the plant. The plant is \_\_\_ feet tall. How tall is the tree?

The dad is \_\_\_ times as tall as his son. His son is \_\_\_ feet tall. How tall is the dad?

The sun is \_\_\_ times as wide as Earth. The Earth is \_\_\_\_ miles wide. How wide is the sun?

A giraffe is \_\_\_ times as tall as a monkey. A monkey is \_\_\_ meters tall. How many meters tall is a giraffe?

A sofa is \_\_\_ times as long as a chair. A chair is \_\_\_ feet long. How long is a sofa?

The population of China is \_\_\_ as large as the U.S.A. The population of the U.S.A. is \_\_\_. How large is the population of China?

The trip to Florida is \_\_\_ times as long as the trip to Las Vegas. If the trip to Las Vegas is \_\_\_\_ miles long, how long is the trip to Florida?

**Measurement Division**

Mrs. Moore has \_\_ crayons. There are \_\_\_ crayons in each box. How many boxes does Mrs. Moore have?

John has \_\_ pieces of candy. There are \_\_\_ pieces of candy inside of each bag. How many bags of candy does John have?

There are \_\_ baseball players. Each team has \_\_\_ baseball players. How many baseball teams are there?

Stephanie has \_\_ muffins. \_\_ muffins can fit onto a plate. How many plates does Stephanie need?

Trey has \_\_\_ toy cars. Trey can put \_\_ cars into a container. How many containers does Trey need?

The are \_\_\_ kids going on a field trip. \_\_ kids can fit onto each bus. How many buses will be needed for the field trip?

The city of Long Beach has \_\_\_ kids who want to play soccer. \_\_\_ kids can fit on each team. How many soccer teams will Long Beach need?

The airline company has \_\_ passengers. \_\_\_ passengers can fit onto each plane. How many planes will the airline need?

The school needs lunch benches for its \_\_ students. \_\_\_ students can fit on each lunch bench. How many lunch benches will the school need?

The restaurant is having a party for \_\_\_ people. \_\_ people can fit at each table. How many tables will the restaurant need?

There are \_\_\_ students at the school. \_\_ students can fit into each classroom. How many classrooms will the school need?

There are \_\_ books in the library. \_\_\_ books can fit onto each shelf. How many shelves will the library need?

Jerry is reading a book that is \_\_ pages long. If he reads \_\_ pages per day, how many days will it take for him to read the whole book?

Shelly earns $ \_\_\_ per hour. How many hours will it take her to earn $\_\_\_?

**Array**

There are \_\_ students in the auditorium. \_\_\_ students can fit into each row of chairs. How many rows will the custodian need to set up?

**Area**

A builder is building a playground area that is \_\_\_ feet long on one side of the play area and \_\_ feet long on the adjacent side of the play area. If the painter gets paid $\_\_ for every square foot she paints, how much money will she make?

**Measurement Division (Multiplicative Comparison)**

The tree is \_\_\_ feet tall. The plant is \_\_\_ feet tall. The tree is how many times taller than the plant?

The dad is \_\_\_ inches tall. His son is \_\_\_ inches tall. How many times taller is the dad than the son?

The sun is \_\_\_ kilometers wide. The Earth is \_\_\_\_ kilometers wide. How much wider is the sun than the earth?

A giraffe is \_\_\_ meters tall. A monkey is \_\_\_ meters tall. How much taller is a giraffe than a monkey?

A sofa is \_\_\_ feet long. A chair is \_\_\_ feet long. How much longer is a sofa than a chair?

The population of China is \_\_\_ . The population of the U.S.A. is \_\_\_. How many times larger is the population of China than the U.S.A.?

The trip to Florida is \_\_\_ miles long. The trip to Las Vegas is \_\_\_ miles long. How much farther is the trip to Florida than the trip to Las Vegas?

**Partitive Division**

There are \_\_\_ cupcakes. Melissa wants to put the same amount of cupcakes onto \_\_ plates. How many cupcakes can Melissa put onto each plate?

There are \_\_\_ students in the school. The principal wants to put an equal amount of students into the \_\_ classrooms. How many students will be placed into each classroom?

The teacher has \_\_ pieces of paper. She wants to share the paper equally with her \_\_ students. How many pieces of paper will each student receive?

The wrestling team has \_\_\_ wrestlers. The coach wants to put an equal amount of wrestlers into \_\_ divisions. How many wrestlers will be in each division?

Janis has \_\_\_ minutes to spend on her homework. She wants to spend an equal amount of time on each of her \_\_\_ assignments. How much time does she have to spend on each assignment?

Mr. Smith has \_\_\_ granola bars to share with his \_\_ kids. He wants each kid to get the same amount. How many granola bars can each kid get?

Jerry has to read a book that is \_\_\_ pages long. He plans to read the same amount of pages everyday. If he has \_\_\_ days to finish the book, how many pages must he read per day?

James has $\_\_\_ to spend for the week. If he spends an equal amount of money everyday for \_\_\_ days, how much money can he spend each day?

Alma wants to run a \_\_\_ kilometer race in \_\_\_ minutes. If she runs at the same speed the entire race, how fast will she have to run per kilometer?

Brandon has \_\_\_ pieces of candy. He wants to share the candy equally with \_\_\_ friends. How many pieces of candy will each friend get?

**Array**

There are \_\_\_ students in the auditorium. The custodian wants to put an equal amount of students into \_\_ rows. How many students can fit into each row?

**Area**

A builder is building a playground area that is \_\_\_ feet long on one side of the play area and \_\_ feet long on the adjacent side of the play area. If the painter gets paid $\_\_ for painting the area, how much does the painter get paid per square foot?

**Partitive Division (Multiplicative Comparison)**

The tree is \_\_\_ feet tall. The tree is \_\_\_\_ times as tall as the plant. How tall is the plant?

The dad is \_\_\_ feet tall. The dad is \_\_\_ times as tall as the son. How tall is the son?

The sun is \_\_\_ kilometers wide. The sun is \_\_\_\_ times as wide as the earth. How wide is the earth?

A giraffe is \_\_\_ feet tall. A giraffe is \_\_\_ times as tall as a monkey. How tall is a monkey?

A sofa is \_\_\_ feet long. A sofa is \_\_\_ times as long as a chair. How long is a chair?

The population of China is \_\_\_ . The population of China is \_\_\_ times as large as the population of the U.S.A. How large is the population of the U.S.A.?

The trip to Florida is \_\_\_ kilometers long. The trip to Florida is \_\_\_ times as long as the trip to Las Vegas. How long is the trip to Las Vegas?