

Identify the Unknown

Materials: Identify the Unknown cards and sorting mat

1. Read each division problem and decide whether it is a grouping or sharing problem. Sort the problems into these two categories on the table.

Reminder:

In a **grouping** problem the size of the groups is given and you need to find the number of equal groups.

In a **sharing** problem the number of equal groups is given and you need to find the number in each group.

2. Represent each problem in your notebook using an equation with a symbol for the unknown number. Solve each problem.
3. Share your work with a partner. Justify your reasoning.
4. Write and solve one grouping and one sharing division problem using the numbers 3, 5 and 15.

Grouping: How Many Equal Groups?

Sharing: How Many in Each Group?

A teacher gave out 27 pencils to 9 students. Each student got the same number of pencils. How many pencils did each student get?

A.

A baker made 27 cupcakes and packed them in small boxes. Each box held 3 cupcakes. How many boxes of cupcakes did he have?

B.

A gardener had 28 seeds to plant in pots. She decided to plant 7 seeds in each pot. How many pots of seeds did she plant?

C.

A class of 32 students were divided equally into teams for a relay race. Each relay team had 4 students. How many relay teams were there?

D.

A shopkeeper had 28 hats to display in rows in the store window. He decided to display 4 rows with the same number of hats in each row. How many hats were in each row?

E.

A farmer had 32 pounds of grain. He had 8 cows to feed. Each animal was given the same amount of grain. How many pounds of grain did each animal get?

F.

A greengrocer sells 24 carrots to 6 customers. Each customer buys the same number of carrots. How many carrots does each customer buy?

G.

A librarian places 45 books onto shelves. Each shelf has 9 books. How many shelves does she place books on?

H.

Liam plants 20 seeds in 4 rows in his garden. He puts the same number of seeds in each row. How many seeds does he plant in each row?

I.

Maria has 21 apples. She wants to put them into bags of 3. How many bags will she have?

J.

Lucy has 30 crayons and shares them between 5 of her friends. How many crayons does each friend get?

K.

Joes has 48 pencils. He has 6 pencil tins. He wants each tin to have the same number of pencils. How many pencils should he put in each tin?

L.