Multiplication and Division Word Problems

Example: The picture shows horses in pastures. A word problem about this situation could ask about...

- the number of groups (number of pastures);
- the number of horses in each pasture; or
- the total number of horses.

Here is one such word problem:

"Fifteen horses were placed evenly in pastures, five horses in each pasture. How many pastures were needed?"

What is another word problem you could make?
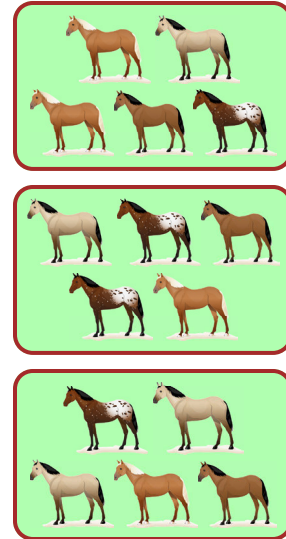
In **multiplication word problems**...

- There are groups that are the same size.
- You are asked the total.
- You know *how many groups there are* <u>and</u> *how many are in each group*.

In **division word problems**...

- There are groups that are the same size.
- You already know the total.
- You are told either how many groups there are or how many are in each group.
- You are asked *how many are in each group* or *how many groups there are*.

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1. Solve. Write a division *or* a multiplication for each problem. The box ☐ is where you will write either × or ÷ . Think: **is the problem asking for a total?** Or **do you already know the total**, and it asks "how many groups/parts" or "how many in each group/part"?

a. Henry has 90 stamps in his stamp album with ten stamps on each page. How many pages are full of stamps?

_____ ☐ _____ = _____

_____ pages are full of stamps.

b. Jill puts 12 stamps per page in her stamp album. Eight pages in her album are full of stamps. How many stamps does she have?

_____ ☐ _____ = _____

She has _____ stamps.

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2. Solve. Write a division *or* a multiplication for each problem. Think: is the problem asking for a total? Or do you already know the total?

a. If four children can fit into one taxi, how many children would fit into 11 taxis?

_____ ☐ _____ = _____

There would be _____ children.

b. Four children can fit into one taxi. How many taxis do you need for 12 children?

_____ ☐ _____ = _____

You need _____ taxis.

c. If there are ten eggs in each carton, how many eggs are in five cartons?

_____ ☐ _____ = _____

There are _____ eggs in five cartons.

d. Ryan placed ten toy cars in bags, with five cars in each bag. How many bags did he use?

_____ ☐ _____ = _____

He used _____ bags.

e. Ella can fit three bottles of juice into one plastic bag. How many can she fit into five bags?

_____ ☐ _____ = _____

She can fit _____ bottles in five bags.

f. Amy can fit three bottles of juice into one plastic bag. How many bags will she need for 18 bottles?

_____ ☐ _____ = _____

She will need _____ bags.

g. Maya, Jayce, and Lily divided 36 cherries equally. How many did each one get?

_____ ☐ _____ = _____

Each one got _____ cherries.

h. The teacher made five equal groups with a class of 25 students. How many students were in each group?

_____ ☐ _____ = _____

Each group had _____ students.

i. How many people are in seven vans if each van has five people in it?

_____ ☐ _____ = _____

There are _____ people in seven vans.

j. Luke divided a 27-inch-long board into three parts. How long was each part?

_____ ☐ _____ = _____

Each part was _____ long.