Multiplication and Division Using Strip Diagrams
Independent Practice Worksheet

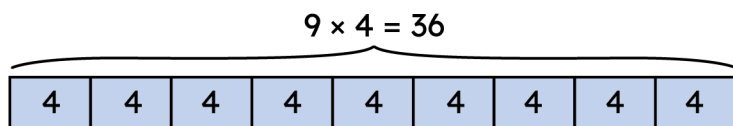Name: _____   Date: ____ / ____ / ____

Instruction

Let's use strip diagrams to help solve this word problem.

The teacher has 9 tables. There are 4 students at each table. The teacher wants to divide the students equally among 6 work stations.
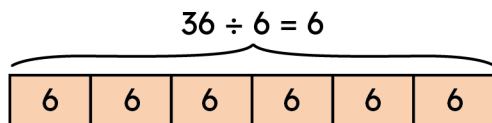
How many students will be at each work station?

Remember, multiply when you need to combine equal groups. Divide when you need to separate an amount into equal groups.

Step 1: $9 \times 4 = 36$

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4	4	4	4	4	4	4	4	4

Step 2: $36 \div 6 = 6$

$36 \div 6 = 6$

6	6	6	6	6	6

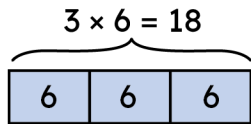There are 6 students at each work station.

Practice

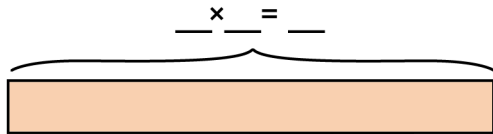Read each word problem. Then solve the problem.

1. There are 3 rows of games at the fair. Each row has 6 games. Each game costs 4 tickets to play. How many tickets will it cost to play all the games?

   Step 1 is to multiply the number of rows by the number of games. So, 3 x 6.

   This equals 18.

   $3 \times 6 = 18$

6	6	6

   Step 2 is to multiply the number of games by the number of tickets. Use the strip diagram to show this.

   ___ × ___ = ___

   It will cost _____ tickets to play all of the games.

2. There are 88 flowers in the garden. They are planted equally in 2 rows. Each row is separated equally into 4 sections. How many flowers are in each section?

   Draw strip diagrams to solve the problem.

   There are _____ flowers in each section.

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3. A store has 7 boxes of games. Each box has 12 board games in it. The store wants to put the same number of games on 4 different shelves.

How many board games will be on each shelf?

Draw strip diagrams to solve the problem.

There are _____ board games on each shelf.