

Warm-Up

CST Grade 3

Using a number line, round 189 to the nearest hundred. What hundreds is 189 in-between?

Current: Grade 3

$$3 \times 5$$

Draw as many models for this multiplication expression as you can.

CST Grade 3

The town of Milburg has 5256 grown-ups and 2987 children. How many people live in Milburg? Draw a bar model and solve.

Review: Grade 3

$$\begin{array}{r} 502 \\ -183 \\ \hline \end{array}$$

Make and Take - Exploring basic fact multiplication through multiple representations

Grades 2 -3

Standard Grade 3 - NS 2.2

Materials:

Paper

Pencil

Graph Paper

Scissors

Glue Stick

Select a basic fact to model with students - sample models 3 x 4.

Review all the various methods you have used to represent multiplication:

Bar Model

Area Model

Array

Skip Counting

Number Line

Equal Groups

Show students an example of each type of model for the expression 3 x 4 (see sample)


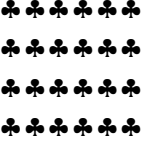
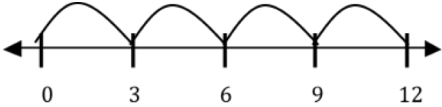
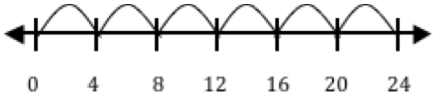
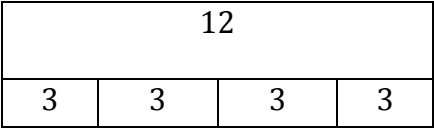
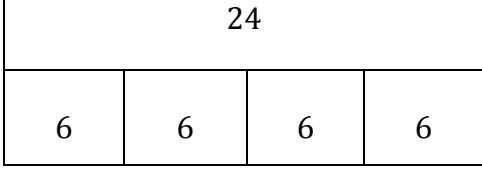
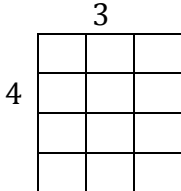
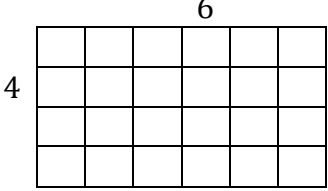
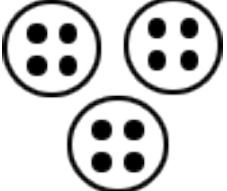
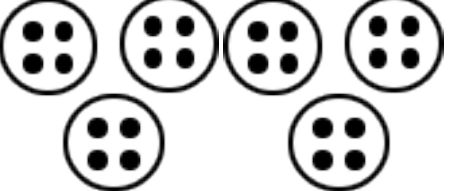
As you sketch the model - discuss with students what the model or picture represents.

Have students do a You Try for each type of model using the expression 4 x 6 (see sample table below.)

As they sketch the You Try, have students show their model to a partner and explain how they know the model is an accurate representation of the fact. (Justify their thinking)

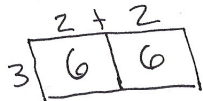
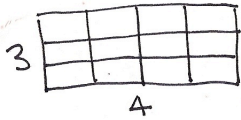
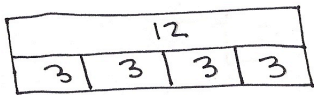
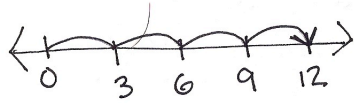
Ask each student to identify one fact that they struggle with that they would like to master. Create a flash card together that represents the selected. (See scanned sample flash card below.)

Students can then independently create flash cards to build visual models and understanding of selected facts.

Expression	Example: 3×4	You Try: 4×6
Skip Counting	3,6,9,12 or 4,8,12	4,8,12,16,20,24 or 6,12,18,24
Array		
Number Line		
Bar Model		
Area Model		
Equal Groups		

Sample Student Constructed Multiple Representations "Flash Card"

3
6
9
12



4, 8, 12

