

## **Factors, Common Factors, and Greatest Common Factors**

**Connect**

**Multiples and Least common multiples**

**Connect**

**Factors, Common Factors, and Greatest Common Factors**

I do **I do**

I want to make prize bags to give out to deserving students. I have 45 skittles and 30 starbursts, and I want to make bags that have an equal number of starbursts in each bag, and an equal number of skittles in each bag (for example, bags with 5 skittles and 4 starbursts each).

Use common factors to figure out the possible numbers of bags I can make.

**We do**      **We d**

**A group of 50 children and 20 adults came to the park for a scavenger hunt. The leader wants to make groups with equal numbers of kids and equal numbers of adults (for example, groups that each have 8 kids and 2 adults).**

**Use common factors to help the leader find the different combinations of groups that can be made.**

**You do together**  
**on whiteboard**  
You do together

I have 28 4th graders, and I want to be book buddies with a class of 20 kindergarteners.

Use common factors to find the possible ways I can group the students so that each group has the same number of 4th graders *and* the same number of kindergarteners.

**You do alone**  
index card

3 x 16

**A restaurant own 48 chairs and 20 tables. Use common factors to help the owner figure out the possible ways she can group the tables and chairs so that each grouping has the same number of tables and the same number of chairs (for instance, groups of 3 tables and 4 chairs).**