Unit 1, Lesson 5

More Multiples

Let’s solve problems that involve factors and multiples.

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Warm-up

Estimation Exploration: Banquet Seating

About how many chairs are in this room?

Record an estimate that is:

too low	about right	too high

Activity 1

Choose the Right Tables

Students are preparing for a party. The school has tables where 6 people can sit and tables where 8 people can sit.

The students can only choose one type of table and they want to avoid having empty seats.

1. Jada's class has 18 students. Which table would you choose for Jada's class? Explain or show your reasoning.

2. Noah's class has 30 students. Which table would you choose for Noah's class? Explain or show your reasoning.

3. Which table would you choose for Noah's and Jada's classes together? Can you find more than one option? Explain or show your reasoning.

4. If you also want places for Noah's teacher and Jada's teacher to sit, which table would you choose? Explain or show your reasoning.

Activity 2

Party Hats and Noisemakers

Lin and Diego are planning school parties.

- Each package of party hats has 10 party hats.
- Each package of noisemakers has 8 noisemakers.

1. Lin needs 50 party hats for his school party.
   a. How many packages of party hats should Lin buy? Explain or show your reasoning.

   b. Can Lin buy exactly 50 noisemakers? How many packages of noisemakers should Lin buy? Explain or show your reasoning.

2. Diego needs 72 party hats for his school party.
   a. How many packages of party hats should Diego buy? Explain or show your reasoning.

b. How many packages of noisemakers should Diego buy? Explain or show your reasoning.

3. Is it possible to buy exactly the same number of party hats and noisemakers? If so, what would that number be? If not, explain your reasoning.