

LESSON
5-5

Problem Solving

Least Common Multiple

Use the table to answer the questions.

1. You want to have an equal number of plastic cups and paper plates. What is the least number of packs of each you can buy?

2. You want to invite 48 people to a party. What is the least number of packs of invitations and napkins you should buy to have one for each person and none left over?

3. You want to have an equal number of noisemakers and balloons at your party. What is the least number of packs of each you can buy?

Party Supplies

Item	Number per Pack
Invitations	12
Balloons	30
Paper plates	10
Paper napkins	24
Plastic cups	15
Noise makers	5

4. You bought an equal number of packs of plates and cups so that each of your 20 guests would have 3 cups and 2 plates. How many packs of each item did you buy?

Circle the letter of the correct answer.

5. The LCM for three items listed in the table is 60 packs. Which of the following are those three items?

A balloons, plates, noise makers
B noise makers, invitations, balloons
C napkins, cups, plates
D balloons, napkins, plates

6. To have one of each item for 120 party guests, you buy 10 packs of one item and 24 packs of the other. What are those two items?

F plates and invitations
G balloons and cups
H napkins and plates
J invitations and noise makers