

School Carnival Planner

5th Grade Math Project · Events & Planning

Grade 5 · Advanced

Name: Date: Class:

The Challenge

The whole school is going to the spring carnival, and your class is in charge of planning. You need to make sure there are enough buses, tickets and prizes!

You will make: Carnival Plan

What you will learn

- Multiply multi-digit whole numbers
- Divide by two-digit divisors
- Interpret remainders in context
- Estimate to check reasonableness

Materials

- Pencil
- Grid paper for area models (optional)

How to do it

1. Part 1: Getting Everyone There
2. Part 2: Ticket Sales
3. Part 3: Prize Bags
4. Part 4: Carnival Plan
5. Check your work and share your carnival plan.

Part 1: Getting Everyone There

2,735 students are coming. Each bus holds 48 students.

1. How many buses are needed?

2. Write the division and explain the remainder.

Part 2: Ticket Sales

The class sells 1,265 ticket books. Each book has 48 tickets.

3. Estimate the total number of tickets.

4. Find the exact total.

5. Is your answer reasonable? Explain.

Part 3: Prize Bags

There are 4,836 small prizes to put into bags of 26.

6. How many full prize bags can be made?

7. How many prizes are left over?

Part 4: Carnival Plan

Make a one-page plan that shows your buses, tickets and prize bags with the math for each.

8. Show an area model or partial products for one multiplication.

⭐ Extension Challenge

Buses cost $185 each for the day. What is the total bus cost? If the cost is shared by all students, about how much is that per student?

How your project will be scored

Category	4 Excellent	3 Good	2 Developing	1 Beginning
Math accuracy	All answers correct	Most answers correct	Some answers correct	Few answers correct
Shows work	Clear work for every step	Work for most steps	Some work shown	Little work shown
Explains thinking	Clear, complete explanations	Mostly clear explanations	Some explanation	Little explanation
Final product	Complete, neat and creative	Complete and neat	Partly complete	Not complete