# School Carnival

Teacher Guide · Solutions · Rubric

**Grade 2 · All levels**

## Overview

A cumulative project for Units 1–6. Students plan a school carnival: ticket facts within 20, teams in pairs and arrays, prize counts in hundreds, tens and ones, comparing ticket totals, adding and subtracting within 100, and two-step booth stories.

**Time:** 3 class periods · **Product:** Carnival Plan
**Standards:** 2.OA.A.1, 2.OA.B.2, 2.OA.C.3, 2.OA.C.4, 2.NBT.A.1, 2.NBT.A.3, 2.NBT.A.4, 2.NBT.B.5, 2.NBT.B.8
**Prerequisite skills:** Units 1–6 of 2nd Grade Math

## Learning targets

- I can add and subtract within 20 and within 100.
- I can use place value to write and compare numbers.
- I can solve one- and two-step word problems.

## Timing and materials

- Day 1 (40 min): tickets and teams (Parts 1–2).
- Day 2 (40 min): prizes and comparing (Parts 3–4).
- Day 3 (40 min): booth stories and the carnival plan (Part 5); presentations.

**Materials:** Booth cards and ticket sheet (printable support page); Counters or base-ten blocks; Poster paper; Pencils. No accounts, paid products or student personal information are needed.

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## The three versions

- Remedial: hints for a first step, partly filled tables, sentence frames and fewer open choices; the same learning targets.
- Standard: the full task set at grade level; students choose their strategies and models.
- Advanced: open design constraints, missing information, error analysis and a written justification; no hints.

All versions use the same context and learning targets, so groups can share and compare work.

## Implementation notes

- Use this after Unit 6 as a review; each part names the unit it reviews.
- Groups of 3–4 work well; rotate the recorder role.
- Advanced students decide how to split prizes between booths and justify the plan.
- Before Part 1, read the challenge aloud and ask students to restate the goal.
- Close with a gallery walk: each group explains one strategy.

## Rubric

| Learning target | 4 Exceeds | 3 Meets | 2 Approaching | 1 Beginning |
|---|---|---|---|---|
| I can add and subtract within 20 and within 100. | Correct and complete; explains how | Mostly correct | Partly correct | Not yet |
| I can use place value to write and compare numbers. | Correct and complete; explains how | Mostly correct | Partly correct | Not yet |
| I can solve one- and two-step word problems. | Correct and complete; explains how | Mostly correct | Partly correct | Not yet |
| I can explain my thinking with pictures, numbers and words. | Clear for every part | Clear for most parts | Some explanation | Little explanation |
| My carnival plan is complete and matches my math. | Complete, neat, accurate | Complete | Partly complete | Not complete |

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## Solutions · Remedial KEY

### Part 1: Tickets (Unit 1)

Ana has 7 tickets and Ben has 6.

**1.** How many tickets do they have together?

**13**

**2.** A game costs 15 tickets. How many more tickets do they need?

**2**

### Part 2: Teams and Lines (Unit 2)

12 children want to play the partner game. Chairs for the show are in 3 rows of 4.

**3.** Is 12 odd or even? Can everyone have a partner?

**even, yes**

**4.** How many chairs are there?

**12 chairs**

### Part 3: Prizes (Unit 3)

The carnival has 236 prizes.

**5.** How many hundreds, tens and ones are in 236?

**2 hundreds, 3 tens, 6 ones**

**6.** Write 236 in expanded form.

**200 + 30 + 6**

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## Part 4: Comparing (Unit 4)

Booth A gave out 136 prizes and booth B gave out 226.

**7.** Which booth gave out more? Write it with > or <.

**226 > 136**

**8.** What is 10 more than 226?

**236**

## Part 5: Booth Stories (Units 5–6)

The ring toss had 34 players in the morning and 25 in the afternoon.

**9.** How many players in all?

**59 players**

**10.** How many more players came in the morning?

**9 players**

**11.** Then 12 more players came at night. How many players for the whole day?

**71 players**

## Extension

If each of 4 booths gives out 25 prizes, how many prizes are given out? Use repeated addition.

**100 prizes (25 + 25 + 25 + 25)**

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## Solutions · Standard KEY

### Part 1: Tickets (Unit 1)

Ana has 9 tickets and Ben has 8.

**1.** How many tickets do they have together?

**17**

**2.** A game costs 15 tickets. How many tickets are left after one game?

**2**

### Part 2: Teams and Lines (Unit 2)

15 children want to play the partner game. Chairs for the show are in 4 rows of 5.

**3.** Is 15 odd or even? Can everyone have a partner?

**odd, no (one is left over)**

**4.** How many chairs are there?

**20 chairs**

### Part 3: Prizes (Unit 3)

The carnival has 405 prizes.

**5.** How many hundreds, tens and ones are in 405?

**4 hundreds, 0 tens, 5 ones**

**6.** Write 405 in expanded form.

**400 + 5**

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## Part 4: Comparing (Unit 4)

Booth A gave out 305 prizes and booth B gave out 395.

**7.** Which booth gave out more? Write it with > or <.

**395 > 305**

**8.** What is 10 more than 395?

**405**

## Part 5: Booth Stories (Units 5–6)

The ring toss had 48 players in the morning and 37 in the afternoon.

**9.** How many players in all?

**85 players**

**10.** How many more players came in the morning?

**11 players**

**11.** Then 12 more players came at night. How many players for the whole day?

**97 players**

## Extension

If each of 4 booths gives out 25 prizes, how many prizes are given out? Use repeated addition.

**100 prizes (25 + 25 + 25 + 25)**

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## Solutions · Advanced KEY

### Part 1: Tickets (Unit 1)

Ana has 8 tickets and Ben has 9.

1. How many tickets do they have together?
   **17**
2. A game costs 15 tickets. How many tickets are left after one game?
   **2**

### Part 2: Teams and Lines (Unit 2)

19 children want to play the partner game. Chairs for the show are in 5 rows of 4.

3. Is 19 odd or even? Can everyone have a partner?
   **odd, no (one is left over)**
4. How many chairs are there?
   **20 chairs**

### Part 3: Prizes (Unit 3)

The carnival has 618 prizes.

5. How many hundreds, tens and ones are in 618?
   **6 hundreds, 1 ten, 8 ones**
6. Write 618 in expanded form.
   **600 + 10 + 8**

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## Part 4: Comparing (Unit 4)

Booth A gave out 518 prizes and booth B gave out 608.

**7.** Which booth gave out more? Write it with > or <.

**608 > 518**

**8.** What is 10 more than 608?

**618**

## Part 5: Booth Stories (Units 5–6)

The ring toss had 67 players in the morning and 29 in the afternoon.

**9.** How many players in all?

**96 players**

**10.** How many more players came in the morning?

**38 players**

**11.** Then 12 more players came at night. How many players for the whole day?

**108 players**

## Part 6: Prize Plan

Split 618 prizes between two booths so booth A gets 100 more than booth B.

**12.** How many prizes does each booth get? Show your thinking.

**Booth A: 359, booth B: 259**

## Extension

If each of 4 booths gives out 25 prizes, how many prizes are given out? Use repeated addition.

**100 prizes (25 + 25 + 25 + 25)**