

Snack Stand Facts

Teacher Guide · Solutions · Rubric

Grade 2 · All levels

Overview

Students run a pretend snack stand. They add and subtract snack counts within 20 with make-a-ten and doubles, find missing numbers, and build a fact family menu board.

Time: 2 class periods · **Product:** Fact Family Menu Board
Standards: 2.OA.B.2
Prerequisite skills: Count to 20 and add within 10 (Grade 1)

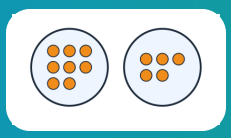
Learning targets

- I can add within 20 using make a ten and doubles.
- I can subtract within 20 by thinking addition.
- I can write a fact family and find a missing number.

Timing and materials

- Day 1 (40 min): count snacks with ten frames; Parts 1–2.
- Day 2 (40 min): missing numbers and the fact family menu board (Parts 3–4).

Materials: Two-color counters or cubes (20 per pair); Ten-frame mats (printable support page); Pencils and crayons; Paper for the menu board. 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.

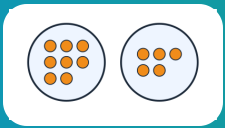
All versions use the same context and learning targets, so groups can share and compare work.

Implementation notes

- Have students show make-a-ten on two ten frames before writing equations.
- Ask “What fact do you already know that helps?” for every problem.
- Advanced students design a menu where every price pair makes a ten and explain their choices.
- 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 within 20 using make a ten and doubles.	Correct and complete; explains how	Mostly correct	Partly correct	Not yet
I can subtract within 20 by thinking addition.	Correct and complete; explains how	Mostly correct	Partly correct	Not yet
I can write a fact family and find a missing number.	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 fact family menu board is complete and matches my math.	Complete, neat, accurate	Complete	Partly complete	Not complete



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Solutions · Remedial KEY

Part 1: Counting Snacks

The stand has 8 apples and 5 bananas.

Snack	How many
apples	8
bananas	5
total	

1. How many pieces of fruit are there?

13

2. Show how you made a ten. 8 + 5 = 10 + ___

3

Part 2: Selling Snacks

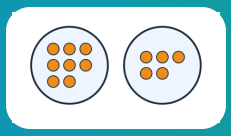
There were 13 granola bars. The stand sold 6.

3. How many granola bars are left?

7

4. Write the addition fact you used to check.

6 + 7 = 13



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Part 3: Missing Numbers

Find the number that makes each equation true.

5. 7 + ___ = 15

8

6. ___ − 6 = 9

15

7. 6 + 6 = 5 + ___

7

Part 4: Fact Family Menu Board

Pick three snacks and make a fact family for each pair of numbers on your menu board.

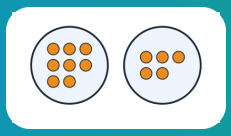
8. Write one fact family with a sum from 11 to 18.

Answers vary; all four facts must use the same three numbers.

Extension

The stand gets 9 more apples and 9 more bananas. How many new pieces of fruit? Use a double.

18 (9 + 9)



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Solutions · Standard KEY

Part 1: Counting Snacks

The stand has 9 apples and 7 bananas.

Snack	How many
apples	9
bananas	7
total	

1. How many pieces of fruit are there?

16

2. Show how you made a ten. 9 + 7 = 10 + ___

6

Part 2: Selling Snacks

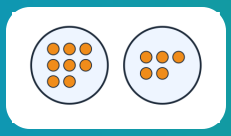
There were 16 granola bars. The stand sold 9.

3. How many granola bars are left?

7

4. Write the addition fact you used to check.

9 + 7 = 16



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Part 3: Missing Numbers

Find the number that makes each equation true.

5. 7 + ___ = 15

8

6. ___ − 6 = 9

15

7. 6 + 6 = 5 + ___

7

Part 4: Fact Family Menu Board

Pick three snacks and make a fact family for each pair of numbers on your menu board.

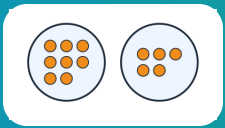
8. Write one fact family with a sum from 11 to 18.

Answers vary; all four facts must use the same three numbers.

Extension

The stand gets 9 more apples and 9 more bananas. How many new pieces of fruit? Use a double.

18 (9 + 9)



Snack Stand Facts

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Solutions · Advanced KEY

Part 1: Counting Snacks

The stand has 8 apples and 9 bananas.

Snack	How many
apples	8
bananas	9
total	

1. How many pieces of fruit are there?

17

2. Show how you made a ten. 8 + 9 = 10 + ___

7

Part 2: Selling Snacks

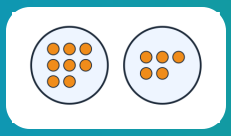
There were 17 granola bars. The stand sold 8.

3. How many granola bars are left?

9

4. Write the addition fact you used to check.

8 + 9 = 17



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Part 3: Missing Numbers

Find the number that makes each equation true.

5. 7 + ___ = 15

8

6. ___ − 6 = 9

15

7. 6 + 6 = 5 + ___

7

Part 4: Menu Challenge

Every snack costs a whole number of tickets from 1 to 9. A combo is two snacks.

8. Find three different combos that cost exactly 10 tickets.

Answers vary, e.g. 1 + 9, 2 + 8, 3 + 7, 4 + 6.

9. A combo costs 17 tickets. One snack costs 9. Kai says the other costs 6. Is he right? Explain.

No. 9 + 8 = 17, so the other snack costs 8 tickets.

10. Write the fact family for 9, 8 and 17.

9 + 8 = 17, 8 + 9 = 17, 17 − 9 = 8, 17 − 8 = 9

Extension

The stand gets 9 more apples and 9 more bananas. How many new pieces of fruit? Use a double.

18 (9 + 9)