

Field Trip Packing List

Teacher Guide & Answer Keys

Grade 5 · All levels

Overview

Students pack for a nature field trip. They convert gallons of water to cups, feet of rope to inches, pounds to ounces for backpack weight, and metric distances, solving multi-step problems with regrouping.

Time: 2 class periods · **Product:** Packing Plan · **Standards:** 5.MD.A.1

Suggested pacing

- Day 1: Introduce the challenge, read the scenario together, and work Parts 1–2 in pairs.
- Day 2: Finish the remaining parts and create the final product.
- Wrap-up: Share products and reflect on strategies.

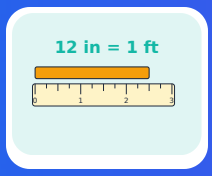
Levels

- **Remedial:** smaller numbers, fewer steps, more structure.
- **Standard:** grade-level numbers and the full set of tasks.
- **Advanced:** harder numbers, extra reasoning and multi-step questions.

All three levels practice the same learning goals, so the class can share and compare work.

Rubric

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



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Answer key · Remedial KEY

Part 1: Water Station

1. How many cups of water is that?
32 cups

2. Is that enough for 16 students to get 2 cups each?
Yes

Part 2: Rope for the Tent

3. How many inches of rope is that?
72 inches

4. How many full pieces?
9 pieces

5. How many inches are left over?
0 inches

Part 3: Backpack Weight

6. What is the total weight in pounds and ounces?
4 lb 12 oz

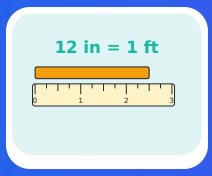
7. What is the total in ounces?
76 oz

Part 4: Trail Distance

8. How many meters is that?
2,000 m

Extension

Under the limit by 84 oz



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Answer key · Standard KEY

Part 1: Water Station

1. How many cups of water is that?
48 cups

2. Is that enough for 22 students to get 2 cups each?
Yes

Part 2: Rope for the Tent

3. How many inches of rope is that?
180 inches

4. How many full pieces?
20 pieces

5. How many inches are left over?
0 inches

Part 3: Backpack Weight

6. What is the total weight in pounds and ounces?
8 lb 10 oz

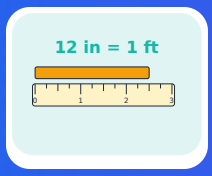
7. What is the total in ounces?
138 oz

Part 4: Trail Distance

8. How many meters is that?
2,500 m

Extension

Under the limit by 22 oz



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Answer key · Advanced KEY

Part 1: Water Station

1. How many cups of water is that?
80 cups

2. Is that enough for 30 students to get 2 cups each?
Yes

Part 2: Rope for the Tent

3. How many inches of rope is that?
300 inches

4. How many full pieces?
21 pieces

5. How many inches are left over?
6 inches

Part 3: Backpack Weight

6. What is the total weight in pounds and ounces?
12 lb 3 oz

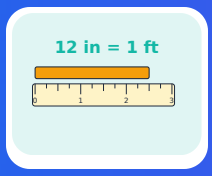
7. What is the total in ounces?
195 oz

Part 4: Trail Distance

8. How many meters is that?
3,700 m

Extension

Over the limit by 35 oz



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Worked teacher example (Standard, Part 1)

How many cups of water is that?

48 cups

Is that enough for 22 students to get 2 cups each?

Yes

Model the first part aloud: read the situation, name the operation, estimate, solve, and check. Then let partners try Part 2.

Look for

- Students use correct notation and units in every answer.
- Students explain why an answer is reasonable (estimates, benchmarks, pictures).
- Final products show the math clearly, not just the answers.