Real Money, Real Problems: Worked Answers

Each problem solved the way the lesson does it.

Name: _____ Date: _____

---

1. It was −4.5°F at dawn. By noon it rose 11 1/4 degrees. Temperature at noon?
   - −4.5 + 11.25.
   - Add: start 4.5 below zero, go up 11.25.

   Answer: 6.75°F

2. A submarine is at −30.4 m. It rises 12.75 m, then dives 5.6 m. Where is it?
   - −30.4 + 12.75 + (−5.6).
   - Move it: −30.4 + (−5.6) + 12.75 = −36 + 12.75.

   Answer: −23.25 m (23.25 m below the surface)

3. Leo has $7.60 in his lunch account. He buys a $5.85 lunch, then his mom deposits $15. Balance?
   - 7.60 + (−5.85) + 15.
   - 1.75 + 15.

   Answer: $16.75

4. You have 3 1/2 cups of sugar. You use 2/3 cup, then 1 1/4 cups. How much is left?
   - 3 1/2 + (−2/3) + (−1 1/4).
   - Twelfths: 42/12 + (−8/12) + (−15/12).
   - 42/12 + (−23/12) = 19/12.

   Answer: 1 7/12 cups

5. A climber starts at 2,480.5 ft, goes down 612.75 ft, then up 95.5 ft. Height now?
   - 2,480.5 + (−612.75) + 95.5.
   - Move it: 2,480.5 + 95.5 + (−612.75) = 2,576 + (−612.75).

   Answer: 1,963.25 ft

6 Ava has $25. She spends $9.49 and $6.75, then earns $12.50. Can she buy a $22 game?

- 25 + (–9.49) + (–6.75) + 12.50.
- Move it: 25 + 12.50 + (–9.49) + (–6.75) = 37.50 + (–16.24).
- 37.50 + (–16.24) = 21.26.

Answer: No. She has $21.26, so she is $0.74 short.

7 The temperature was 3.25°F. It dropped 8 1/2 degrees overnight, then rose 2.75 degrees. Temperature now?

- 3.25 + (–8.5) + 2.75.
- Move it: 3.25 + 2.75 + (–8.5) = 6 + (–8.5).

Answer: –2.5°F

8 A bank account holds $120.40. Three withdrawals: $45.99, $38.20 and $36.21. What is left?

- 120.40 + (–45.99) + (–38.20) + (–36.21).
- Group the money out: 120.40 + (–120.40).

Answer: $0