Plan It Out: Worked Answers

Each problem solved the way the lesson does it.

Name: _____ Date: _____

1. A class buys 2 bags of flour at $3.50 each and sells 30 cookies at $0.50 each. What is the profit?
   - 30 × 0.50 + 2 × (–3.50).
   - Estimate: about 15 minus 7, so about 8.
   - 15 + –7 = 8.

   Answer: $8

2. It is –6.5°F at 6 a.m. The temperature rises 3 degrees each hour for 4 hours, then drops 5 degrees. What is the temperature now?
   - –6.5 + 4 × 3 + –5.
   - –6.5 + 12 + –5 = 0.5.

   Answer: 0.5°F

3. A diver at –40 meters rises 2.5 meters each minute for 6 minutes. Where is she?
   - –40 + 6 × 2.5.
   - –40 + 15 = –25.

   Answer: –25 meters (25 meters below the surface)

4. Leo has $30 in his lunch account. He buys 4 lunches at $3.25 each. Then his mom deposits $5. What is his balance?
   - 30 + 4 × (–3.25) + 5.
   - 30 + –13 + 5 = 22.

   Answer: $22

5 The low temperatures for five days were −4, 1, −6.5, 0, and −0.5 degrees. What was the mean low temperature?

- (−4 + 1 + −6.5 + 0 + −0.5) ÷ 5.
- −10 ÷ 5 = −2.

Answer: −2 degrees

6 A recipe uses 2 thirds of a cup of sugar for one batch. You have 3 cups. How many full batches can you make?

- 3 ÷ 2 thirds = 3 × 3 halves = 9 halves.
- 9 halves = 4 and 1 half. Only whole batches count.

Answer: 4 full batches (with some sugar left over)

7 A stock's price drops $0.75 each day for 6 days, then rises $2.10. How much did the price change in all?

- 6 × (−0.75) + 2.10.
- −4.50 + 2.10 = −2.40.

Answer: −$2.40 (it went down $2.40)

8 A hiker starts 250 meters above sea level, goes down 30 meters each hour for 3 hours, then climbs 45 meters. Where is she?

- 250 + 3 × (−30) + 45.
- 250 + −90 + 45 = 205.

Answer: 205 meters above sea level