Name: _____ Date: _____

Integer Word Problems

Grades 6–7 • 24 questions • Temperature and height. Find the zero point, write each amount as an integer, then calculate

1. It is −4°C at dawn. By noon the temperature has risen 11 degrees. What is the temperature at noon?
   Answer: _____

2. It is 3°C at 6 p.m. By midnight it has fallen 9 degrees. What is the temperature at midnight?
   Answer: _____

3. The low today was −13°C and the high was 2°C. What was the difference between them?
   Answer: _____

4. The temperature drops 2 degrees every hour for 5 hours, starting at 1°C. What is the temperature then?
   Answer: _____

5. Which is colder, −18°C or −9°C? By how many degrees?
   Answer: _____

6. The temperature fell 24 degrees over 6 hours, the same each hour. What was the change each hour?
   Answer: _____

7. A submarine is at −120 m. It rises 45 m. What is its new depth?
   Answer: _____

8. A diver at −8 m dives down another 14 m. Where is she now?
   Answer: _____

9. A hiker stands on a hill at 35 m. A cave floor is at −20 m. How far apart are they?
   Answer: _____

10. A lift starts on floor −2, goes up 9 floors, then down 4 floors. Which floor is it on?
    Answer: _____

11. The Dead Sea shore is about −430 m. A town nearby is at 800 m. How much higher is the town?
    Answer: _____

12. A bird is at 12 m and a fish is at −5 m. Write the fish's position as a distance below sea level.
    Answer: _____

Name: _____ Date: _____

Integer Word Problems

Questions 13 to 24 • Money, sports and scores, and two-step problems

13. Ravi has $15. He spends $22. What is his balance?

Answer: _____

14. Mia’s balance is −$30. She pays in $45. What is her balance now?

Answer: _____

15. A shop made a loss of $120 in May and a profit of $85 in June. What is the total?

Answer: _____

16. Four friends share a debt of $36 equally. Write each person’s share as an integer.

Answer: _____

17. A bank charges $3 a month for 7 months. Write the total change to the balance.

Answer: _____

18. Leo owes $18. Sam owes $11. Who owes more, and by how much?

Answer: _____

19. A football team gains 7 yards, loses 12 yards, then gains 4 yards. What is the total change?

Answer: _____

20. A golfer scores −2, +1, −3 and 0 over four days. What is the total score?

Answer: _____

21. In a quiz, right answers score +3 and wrong answers −2. Zara gets 5 right and 4 wrong. Her score?

Answer: _____

22. A game score is −15. You win 3 rounds worth +8 each. What is the score now?

Answer: _____

23. A climber goes from −60 m in a canyon up to 140 m on a cliff. How far did she climb?

Answer: _____

24. Stretch: the temperature at 6 a.m. was −5°C and rose 3 degrees an hour. When did it reach 7°C?

Answer: _____

Answer Key — Integer Word Problems

1. 7°C
2. −6°C
3. 15 degrees
4. −9°C
5. −18°C, by 9 degrees
6. −4 degrees
7. −75 m
8. −22 m
9. 55 m
10. Floor 3
11. 1,230 m
12. 5 m below sea level
13. −$7
14. $15
15. −$35 (a loss of $35)
16. −9
17. −21
18. Leo, by $7
19. −1 yard
20. −4
21. 7
22. 9
23. 200 m
24. At 10 a.m.