1.3   Exercises

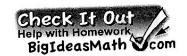## ✔ Vocabulary and Concept Check

1. **WRITING** How do you subtract one integer from another?

2. **OPEN-ENDED** Write two integers that are opposites.

3. **DIFFERENT WORDS, SAME QUESTION** Which is different? Find "both" answers.

Find the difference of 3 and −2.   What is 3 less than −2?

How much less is −2 than 3?   Subtract −2 from 3.

MATCHING Match the subtraction expression with the corresponding addition expression.

4. $9 - (-5)$ 5. $-9 - 5$ 6. $-9 - (-5)$ 7. $9 - 5$

A. $-9 + 5$ B. $9 + (-5)$ C. $-9 + (-5)$ D. $9 + 5$

✔ Practice and Problem Solving

Subtract.

8. $4 - 7$ 9. $8 - (-5)$ 10. $-6 - (-7)$ 11. $-2 - 3$

12. $5 - 8$ 13. $-4 - 6$ 14. $-8 - (-3)$ 15. $10 - 7$

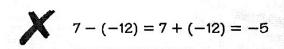16. $-8 - 13$ 17. $15 - (-2)$ 18. $-9 - (-13)$ 19. $-7 - (-8)$

20. $-6 - (-6)$ 21. $-10 - 12$ 22. $32 - (-6)$ 23. $0 - (20)$

24. **ERROR ANALYSIS** Describe and correct the error in finding the difference $7 - (-12)$.

✗ $7 - (-12) = 7 + (-12) = -5$

25. **SWIMMING POOL** The floor of the shallow end of a swimming pool is at −3 feet. The floor of the deep end is 9 feet deeper. Which expression can be used to find the depth of the deep end?

$-3 + 9$ $-3 - 9$ $9 - 3$

26. **SHARKS** A shark is at −80 feet. It swims up and jumps out of the water to a height of 15 feet. Write a subtraction expression for the vertical distance the shark travels.

Evaluate the expression.

27. $-2 - 7 + 15$ 28. $-9 + 6 - (-2)$ 29. $12 - (-5) - 8$

30. $8 + 14 - (-4)$ 31. $-6 - (-8) + 5$ 32. $-15 - 7 - (-11)$