Add Integers

Name _____

Date _____

Add with **like signs:** $^-1 + {}^-3$.
- Add the absolute value of the addends.
$$|{}^-1| + |{}^-3| = 1 + 3 = 4$$
- Use the sign of the addends for the sum.
$$^-1 + {}^-3 = {}^-4$$

Add with **unlike signs:** $^-6 + {}^+3$.
- Subtract the absolute values.
$$|{}^-6| - |{}^+3| = 6 - 3 = 3$$
- Use the sign of the addend with the greater absolute value for the sum.
$$^-6 + {}^+3 = {}^-3$$

Add. Use a number line to help.

1. $^+6 + {}^+6 =$ _____
2. $^+3 + {}^+5 =$ _____
3. $^-4 + {}^-5 =$ _____

4. $^-1 + {}^-1 =$ _____
5. $^-3 + {}^-6 =$ _____
6. $^+9 + {}^+9 =$ _____

7. $^-20 + {}^-42 =$ _____
8. $^+17 + {}^+5 =$ _____
9. $^+11 + {}^+12 =$ _____

10. $^-5 + {}^+7 =$ _____
11. $^-4 + {}^+3 =$ _____
12. $^+5 + {}^-5 =$ _____

13. $^+1 + {}^-11 =$ _____
14. $^-8 + {}^+4 =$ _____
15. $^+13 + {}^-6 =$ _____

16. $^-4 + {}^+6 =$ _____
17. $^-15 + {}^+16 =$ _____
18. $^-23 + {}^+7 =$ _____

Find the value of the variable.

19. $^+6 + x = {}^+19$ _____
20. $^-3 + y = {}^+11$ _____

21. $^-24 + s = {}^-16$ _____
22. $t + {}^-7 = {}^-20$ _____

23. $^+5 + u = {}^-1$ _____
24. $^+10 + v = {}^+3$ _____

25. $^-12 + j = {}^-2$ _____
26. $^-6 + k = {}^-10$ _____

27. $^+8 + w = {}^-4$ _____
28. $h + {}^+4 = {}^+15$ _____

Problem Solving

29. A submarine was 10 ft below sea level. It went down 20 more feet. Write its new depth as an integer.
_____

30. In April, Derek gained 2 pounds. In May, he lost 5 pounds. Write his total gain or loss in April and May as an integer.
_____

31. The West Town football team gained 18 yd on one play and lost 5 yd on the next play. Write the team's net gain or loss for the two plays as an integer.
_____

32. An anchor hung against the side of a boat 5 ft above sea level. A sailor lowered the anchor 22 ft. Write its depth as an integer.
_____

Use with Lesson 5-3, pages 154–155 in the Student Book.
Then go to Lesson 5-4, pages 156–157 in the Student Book.

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