

Practice C

For use with pages 63–70

Graph the numbers on a number line. Then write the numbers in increasing order.

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|--|-----------------------------------|---|
| 1. $-6, 2, -7, 0$ | 2. $-2.3, -3.2, -3.3, -2$ | 3. $-\frac{1}{2}, -\frac{3}{2}, -\frac{2}{3}, -\frac{1}{3}$ |
| 4. $4, -\frac{4}{5}, 4.5, -0.7$ | 5. $-3.7, -3.07, 0.37, -3.75$ | 6. $-\frac{3}{4}, 7.5, -0.57, \frac{5}{7}$ |
| 7. $-\frac{2}{5}, -0.25, -3, -\frac{5}{2}$ | 8. $-2, -2.2, -\frac{9}{4}, 2.25$ | 9. $-0.43, 0.04, 0.4, -0.44$ |

Find the opposite of the number.

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|-------------|--------------------|---------------------|
| 10. -33 | 11. 7.1 | 12. $-\frac{9}{10}$ |
| 13. -8.04 | 14. $4\frac{2}{3}$ | 15. $-\frac{31}{7}$ |

Evaluate the expression.

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|--------------------|-------------------------------------|------------------------------------|
| 16. $ -20 $ | 17. $ \frac{5}{8} $ | 18. $- -7.2 $ |
| 19. $- 6.8 + 3.9$ | 20. $ -3\frac{1}{4} + \frac{1}{2}$ | 21. $-\frac{5}{6} - \frac{1}{3} $ |

Profit Use the following information.

During 1999 the profit earned each month by a small business was recorded in the table below.

Month	Profit	Month	Profit	Month	Profit
Jan.	-\$1250	May	\$700	Sept.	\$1000
Feb.	-\$500	June	\$1300	Oct.	\$500
Mar.	\$0	July	\$4000	Nov.	-\$200
April	\$700	Aug.	\$3500	Dec.	-\$3000

- In which month did the business make the most profit?
- In which month did the business make the least profit?
- In which months did the business make a profit below $-\$1000$?

Time Zones Use the following information.

The table to the right represents the time differences, in hours, from London. Positive numbers represent locations ahead of London. Negative numbers represent locations behind London.

- Which locations experience midnight after London?
- If it is midnight in London, write the locations in order from before midnight to after midnight.

Miniature Golf Use the following information.

In a miniature golf tournament the total score is given as the number of strokes above or below par, the expected score. If you are at "even par," your score is zero. The player with the lowest score wins.

Name	Score	Name	Score
Maria	-3	Paul	4
Ashley	-1	Kelly	-2
Sue	-2	Ashish	2

- Who won the tournament?
- Who finished last?
- Who scored closest to par?

Location	Difference	Location	Difference
Boston	-5	Istanbul	+2
Brussels	+1	London	0
Chicago	-6	Los Angeles	-8
Denver	-7	Manila	+8
Guam	+10	Moscow	+3

Practice C

For use with pages 79–85

Find the difference.

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|-------------------|--------------------------------|------------------------------------|
| 1. $8 - 13$ | 2. $9 - (-10)$ | 3. $-5 - (-11)$ |
| 4. $-14 - (-12)$ | 5. $-27 - 28$ | 6. $-14.4 - (-2.8)$ |
| 7. $-19.3 - 23.7$ | 8. $\frac{3}{8} - \frac{3}{4}$ | 9. $\frac{7}{10} - (-\frac{3}{5})$ |
| 10. $14 - -32 $ | 11. $-36.7 - -65.3 $ | 12. $- -6\frac{5}{6} - 3.5$ |

Evaluate the expression.

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|---------------------------|--|---|
| 13. $12 - 5 - 11$ | 14. $13 - 15 - (-9)$ | 15. $-18 - 25 - 16$ |
| 16. $-8 + 14 - 12$ | 17. $-28 - (-12) + 7$ | 18. $33 - (-6) - 42$ |
| 19. $7 - 13 + (-18) - 24$ | 20. $-17 - 8 - (-29) + 16$ | 21. $-6.2 + (-4.8) - 3.5$ |
| 22. $-4.5 - 10 - (-2.7)$ | 23. $\frac{5}{6} - \frac{11}{12} + (-\frac{2}{3})$ | 24. $-\frac{3}{2} + \frac{9}{4} - (-\frac{1}{8})$ |

Evaluate the function for these values of x : -2 , -1 , 0 , and 1 .**Organize your results in a table.**

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|---------------------|-----------------------|-----------------------|
| 25. $y = x - 9$ | 26. $y = 14 - x$ | 27. $y = -x + 10$ |
| 28. $y = 31 + x$ | 29. $y = -25 - x$ | 30. $y = -x - 4.9$ |
| 31. $y = -x + 12.5$ | 32. $y = -9.8 - (-x)$ | 33. $y = -x + 17 - x$ |

34. **Gasoline Prices** The following table shows the weekly prices per gallon of regular gasoline for a month at a gas station. Determine the change in the price per gallon each week. Find the total of these changes to discover the net change in price per gallon.

Week	Price per gallon (\$)
1	1.22
2	1.14
3	1.09
4	1.15

35. **Temperature High and Low** The table below shows the record high and low temperatures for several cities. Find the difference between the record high and low temperatures for each city. Which city has the greatest temperature difference?

City	High Temperature (°F)	Low Temperature (°F)
Little Rock, AR	112°	-5°
Salt Lake City, UT	107°	-30°
Sacramento, CA	115°	18°
Boston, MA	102°	-12°
Honolulu, HI	95°	53°
Duluth, MN	97°	-39°

Challenge Use integers to write an example that satisfies the given conditions. If it is not possible, state so.

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|------------------------------------|------------------------------------|
| 36. positive - negative = negative | 37. positive - positive = negative |
| 38. negative - negative = negative | 39. negative - negative = positive |
| 40. positive - negative = positive | 41. negative - positive = positive |