

Practice A

For use with pages 113-118

Find the quotient.

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|-----------------------------|--------------------------------|--------------------------------|
| 1. $-8 \div 4$ | 2. $18 \div (-3)$ | 3. $36 \div (-6)$ |
| 4. $-48 \div (-4)$ | 5. $-2 \div 12$ | 6. $-3 \div (-\frac{3}{4})$ |
| 7. $-18 \div 36$ | 8. $-80 \div \frac{4}{5}$ | 9. $-13 \div \frac{1}{2}$ |
| 10. $-33 \div 3\frac{2}{3}$ | 11. $\frac{-24}{-\frac{6}{7}}$ | 12. $\frac{36}{-\frac{9}{10}}$ |

Simplify the expression.

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|---------------------------|--------------------------|----------------------------|
| 13. $\frac{16x - 4}{4}$ | 14. $\frac{18m - 9}{3}$ | 15. $\frac{8x + 4}{2}$ |
| 16. $\frac{25c + 10}{5}$ | 17. $\frac{-12n - 9}{3}$ | 18. $\frac{-30c + 10}{2}$ |
| 19. $\frac{35b - 14}{-7}$ | 20. $\frac{3d - 18}{-3}$ | 21. $\frac{-27x - 18}{-9}$ |

Evaluate the expression for the given values of the variables.

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| 22. $\frac{x + 2}{y}$, when $x = 8$ and $y = 2$ | 23. $\frac{x - y}{4}$, when $x = 17$ and $y = 1$ |
| 24. $\frac{x - y}{7}$, when $x = 1$ and $y = 15$ | 25. $\frac{10 - x}{y}$, when $x = 8$ and $y = \frac{1}{3}$ |

Find the domain of the function.

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|---------------------------|------------------------|----------------------------|-------------------------------|
| 26. $y = \frac{2}{x - 1}$ | 27. $y = \frac{3x}{4}$ | 28. $y = \frac{5x}{x + 3}$ | 29. $y = \frac{x - 2}{3 - x}$ |
|---------------------------|------------------------|----------------------------|-------------------------------|

30. **Parking Meter** One quarter will give 40 minutes at a parking meter. If you will be gone 2 hours (120 minutes), how many quarters do you need to deposit?
31. **Musical Notes** A musical note C, one octave (8 full tones) above middle C, has a period of $\frac{1}{550}$ second. What is the frequency of this note? (*Hint:* The frequency of a note is the reciprocal of the note's period.)
32. **Cookies** Your mom agreed to make cookies for the Spanish Club bake sale. Half of the cookies she made are for the bake sale and half are for a care package for your sister in college. Your sister has two roommates. Your sister and her roommates divide the cookies evenly. If your mom made 72 cookies, how many do they each get?
33. **Yearbook Ads** You are in charge of the layout for ads in the back of the yearbook. The area available on one page is 64 square inches. If you put four ads of the same size on one page, how much area does each ad receive?