

## Written Exercises

Divide.

- A**
1.  $\frac{5a + 15b}{5}$
  2.  $\frac{7a - 7b}{7}$
  3.  $\frac{8x - 4y}{4}$
  4.  $\frac{3a + 12c}{3}$
  5.  $\frac{8x - 4y}{2}$
  6.  $\frac{20x - 16}{4}$
  7.  $\frac{56m + 63n}{7}$
  8.  $\frac{42x + 54y}{6}$
  9.  $\frac{5a^2 + 45a}{5a}$
  10.  $\frac{6x^2 - 48x}{6x}$
  11.  $\frac{ab^2 - a^2b}{a}$
  12.  $\frac{xy - 4x^2y^2}{xy}$
  13.  $\frac{a^3 + a^2b + ab^2}{a}$
  14.  $\frac{x^3 + 3x^2 - x}{x}$
  15.  $\frac{6m^2n^2 - 2m + 4m^2}{2m}$
  16.  $\frac{3n^4 + 3n^3 - 6n^2}{3n}$
  17.  $\frac{5x^2 - 15x^3y + 10x}{5x}$
  18.  $\frac{a^2b^3 - a^3b + 4a^2b^2}{a^2b}$
  19.  $\frac{6r^2s + 9rs^2 - 18r^3}{3r}$
  20.  $\frac{n^2 - 3n^4 + 5n^5}{-n^2}$
  21.  $\frac{24a^2b - 6a^2b^2 + 12a^3}{-6}$
- B**
22.  $\frac{-4x^4 + 12x^3 - 48x^2 + 8x}{4x}$
  23.  $\frac{32n - 16n + 16n^2 + 32n^2}{-8n}$
  24.  $\frac{6a^4b^4 + 2a^3b^3 + 4a^2b^2 + 2ab}{-2ab}$
  25.  $\frac{-18x^3y + 48x^2y^2 - 54xy^3}{-6xy}$
  26.  $\frac{-24a^6b^3 + 12a^4b^2 - 9a^2b^3}{-3a^2b^2}$
  27.  $\frac{21x^3b^4 - 28x^5b^3 + 42x^2b^5}{-7x^2b^3}$

## SELF-TEST

Divide.

1.  $\frac{4x}{2x}$
2.  $\frac{2a^6}{a^3}$
3.  $\frac{-6mn^2}{-3mn}$
4.  $\frac{9x^2y^4}{-3x^2y^3}$  (5-9)
5.  $\frac{9m - 12n}{3}$
6.  $\frac{4a^2 + 16a}{2a}$  (5-11)
7.  $\frac{x^2y^2 - xy^2}{xy}$
8.  $\frac{3a^2b - 6ab^2}{3ab}$

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**1.**  $a + 3b$    **3.**  $2x - y$    **5.**  $4x - 2y$

**7.**  $8m + 9n$    **9.**  $a + 9$    **11.**  $b^2 - ab$

**13.**  $a^2 + ab + b^2$    **15.**  $3mn^2 - 1 + 2m$

**17.**  $x - 3x^2y + 2$    **19.**  $2rs + 3s^2 - 6r^2$

**21.**  $-4a^2b + a^2b^2 - 2a^3$    **23.**  $-2 - 6n$

**25.**  $3x^2 - 8xy + 9y^2$

**27.**  $-3xb + 4x^3 - 6b^2$