

## 6.5 Divide Monomials

357. (a)  $y^{10}$  (b)  $7^{14}$

359. (a)  $u^{21}$  (b)  $9^{10}$

361. (a)  $\frac{1}{t^{30}}$  (b)  $\frac{1}{64}$

363. (a)  $\frac{1}{x^6}$  (b)  $\frac{1}{100}$

365. (a) 1 (b) 1

367. (a) -1 (b) -1

369. (a) 1 (b) 6

371. (a) 7 (b) 1

373. (a) -7 (b) 0

375. (a)  $\frac{4}{25}$  (b)  $\frac{x^4}{81}$  (c)  $\frac{a^5}{b^5}$

377. (a)  $\frac{x^3}{8y^3}$  (b)  $\frac{10,000}{81q^4}$

379.  $p^7$

381.  $x^5$

383. 1

385.  $\frac{1}{n^{16}}$

387.  $q^{18}$

389.  $\frac{1}{m^{12}}$

391.  $\frac{a^3}{b^{18}}$

393.  $\frac{y^{20}}{z^{50}}$

395.  $\frac{27m^{15}}{125n^3}$

397.  $\frac{625u^{28}}{16v^{12}}$

399.  $j^9$

401.  $\frac{1}{q^8}$

403.  $64k^6$

405. -4,000

407.  $7v^8$

409.  $-6u^8$

411.  $-\frac{3x^3}{y^{12}}$

413.  $-\frac{2m^3}{3n^5}$

415.  $-\frac{3y^3}{4x^3}$

417.  $\frac{65a^3b^2}{42c^3}$

419.  $-\frac{3q^5}{p^5}$

421.  $\frac{5v^4}{u^2}$

423. (a)  $18n^{10}$  (b)  $12n^{10}$  (c)  $45n^{20}$  (d) 5

425. (a)  $q^8$  (b)  $q^{15}$

427. (a)  $z$  (b)  $\frac{1}{z}$

429.  $6y^6$

431.  $15c^6$

433.  $3x^2$

435.  $-yz^2$

437.  $10^3$

439. Answers will vary.

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