Task card 1 Quotient Rule of Exponents

$$\frac{m^{-3}}{m^{-7}} = m__$$

Task card 2 Quotient Rule of Exponents

$$\frac{b^{-6}}{b^{-4}} = b__$$

Task card 3 Quotient Rule of Exponents

$$\frac{m^{-4}}{m^{7}} = m__$$

Task card 4 Quotient Rule of Exponents

$$\frac{b^{-3}}{b^{2}} = b__$$

Task card 5 Quotient Rule of Exponents

$$\frac{a^{9}}{a^{-7}} = a__$$

Task card 6 Quotient Rule of Exponents

$$\frac{y^{7}}{y^{-7}} = y__$$

Task card 7 Quotient Rule of Exponents

$$\frac{y^{-9}}{y^{9}} = y__$$

Task card 8 Quotient Rule of Exponents

$$\frac{m^{2}}{m^{-5}} = m__$$

Task card 9 Quotient Rule of Exponents

$$\frac{45b^{12}}{9b^{5}} = ___$$

Task card 10 Quotient Rule of Exponents

$$\frac{25n^{11}}{5n^{6}} = ___$$

Task card 11 Quotient Rule of Exponents

$$\frac{45a^{9}}{5a^{6}} = ___$$

Task card 12 Quotient Rule of Exponents

$$\frac{27n^{15}}{3n^{8}} = ___$$

Task card 13 Quotient Rule of Exponents

$$\frac{12x^9}{4x^8} = ___$$

Task card 14 Quotient Rule of Exponents

$$\frac{15x^7}{5x^6} = ___$$

Task card 15 Quotient Rule of Exponents

$$\frac{15m^{15}}{5m^8} = ___$$

Task card 16 Quotient Rule of Exponents

$$\frac{21y^8}{7y} = ___$$

Task card 17 Quotient Rule of Exponents

$$\frac{16m^6\,n^{11}}{8m^5\,n^5} = ___$$

Task card 18 Quotient Rule of Exponents

$$\frac{18a^{11}\,b^7}{9a^3\,b} = ___$$

Task card 19 Quotient Rule of Exponents

$$\frac{4a^7\,b^5}{2a^3\,b^4} = ___$$

Task card 20 Quotient Rule of Exponents

$$\frac{10p^9\,q^8}{2p^4\,q^4} = ___$$

Task card 21 Quotient Rule of Exponents

$$\frac{24p^{10}\,q^5}{8p^7\,q^2} = ___$$

Task card 22 Quotient Rule of Exponents

$$\frac{10p^9\,q^{10}}{5pq^8} = ___$$

Task card 23 Quotient Rule of Exponents

$$\frac{10a^{14}\,b^{10}}{5a^7\,b^6} = ___$$

Task card 24 Quotient Rule of Exponents

$$\frac{10p^{13}\,q^{13}}{2p^5\,q^7} = ___$$

Quotient Rule of Exponents Task Cards

Recording sheet · Grade 8 · Simplify. Divide powers with the same base by subtracting the exponents.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Quotient Rule of Exponents Task Cards: Answer Key

Grade 8 · Medium

The answers online

1. 4	**2.** -2	**3.** -11
4. -5	**5.** 16	**6.** 14
7. -18	**8.** 7	**9.** $5b^{7}$
10. $5n^{5}$	**11.** $9a^{3}$	**12.** $9n^{7}$
13. 3x	**14.** 3x	**15.** $3m^{7}$
16. $3y^{7}$	**17.** $2mn^{6}$	**18.** $2a^{8}\ b^{6}$
19. $2a^{4}\ b$	**20.** $5p^{5}\ q^{4}$	**21.** $3p^{3}\ q^{3}$
22. $2p^{8}\ q^{2}$	**23.** $2a^{7}\ b^{4}$	**24.** $5p^{8}\ q^{6}$