

Name:

Exponents Worksheet

Simplify. Your answer should contain only positive exponents

① $4r \cdot 5r^2$

② $2p^4 \cdot 4p^4$

③ $10xy^3 \cdot 8x^5y^3$

④ $7x^{-4}y^4 \cdot 5y^{-2}$

⑤ $\frac{x^0y^{-3}}{z^{-3}}$

⑥ $\frac{2x^{-3}y^2}{4x^{-4}y^{-1}}$

⑦ $7p^3 \cdot 10q^3p^5 \cdot 8qp^3$

⑧ $(7x^2)^{-6}$

⑨ $x^2y^{-4} \cdot x^3y^2$

⑩ $(2a^4b^{-3})^{-1}$

Exponents Worksheet

Answers

① $4r \cdot 5r^2$

$20r^3$

③ $10xy^3 \cdot 8x^5y^3$

$80x^6y^6$

⑤ $\frac{x^0y^{-3}}{z^{-3}}$

$y^{-3}z^3$

⑦ $7p^3 \cdot 10q^3p^5 \cdot 8qp^3$

$560p^{11}q^3$

⑨ $x^2y^{-4} \cdot x^3y^2$

$\frac{x^5}{y^2}$

② $2p^4 \cdot 4p^4$

$8p^8$

④ $7x^{-4}y^4 \cdot 5y^{-2}$

$35x^{-4}y^2$

⑥ $\frac{2x^{-3}y^2}{4x^{-4}y^{-1}}$

$\frac{xy^3}{2}$

⑧ $(7x^2)^{-6}$

$\frac{1}{117649x^{12}}$

⑩ $(2a^4b^{-3})^{-1}$

$\frac{2a^4}{b^3}$