

Name:

Date: Score:

Exponents Practice Worksheet

Evaluate

① $2^3 \cdot 2^{-5}$

② $\frac{2^9}{2^3}$

③ $\left(\frac{1}{8}\right)^3 \left(\frac{1}{8}\right)^{-4}$

④ $\left(\frac{-6^2}{b^3}\right)^2$

⑤ $(-a^{-3})^{-2}$

⑥ $(a^{\frac{1}{2}} b^2)^4$

⑦ $(a^4 b^{12} c)^0$

⑧ $\frac{a^2 b^4 b^{-2}}{a^{-4} b^{-4}}$

⑨ $(2x^4 y^{-3})^{-1}$

⑩ $\frac{2a^4 b^{-4} c^{-3}}{3a^2 b^{-3} c^4}$

⑪ $\frac{a^{-1}}{4a^4}$

⑫ $\frac{2h^3 y^{-3} k^4}{3yk}$

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Exponents Practice Worksheet

Answers

① $2^3 \cdot 2^{-5}$

2^{-2}

② $\frac{2^9}{2^3}$

2^6

③ $\left(\frac{1}{8}\right)^3 \left(\frac{1}{8}\right)^{-4}$

8

④ $\left(\frac{-6^2}{b^3}\right)^2$

$\frac{1296}{b^6}$

⑤ $(-a^{-3})^{-2}$

a^6

⑥ $(a^{\frac{1}{2}} b^2)^4$

$a^6 b^8$

⑦ $(a^4 b^{12} c)^0$

1

⑧ $\frac{a^2 b^4 b^{-2}}{a^{-4} b^{-4}}$

$a^6 b^6$

⑨ $(2x^4 y^{-3})^{-1}$

$\frac{y^3}{2x^4}$

⑩ $\frac{2a^4 b^{-4} c^{-3}}{3a^2 b^{-3} c^4}$

$\frac{2a^2}{3bc^7}$

⑪ $\frac{a^{-1}}{4a^4}$

$\frac{1}{4a^5}$

⑫ $\frac{2h^3 y^{-3} k^4}{3yk}$

$\frac{3h^3 k^3}{3y^4}$