Simplify each expression to have positive exponents.

1.) 8^{-1}

$\frac{1}{8^1} = \boxed{\frac{1}{8}}$

2.) 3^{-2}

$\frac{1}{3^2} = \boxed{\frac{1}{9}}$

3.) y^{-7}

$\boxed{\frac{1}{y^7}}$

Simplify each expression to have positive exponents.

4.) w^{-12}

$\boxed{\frac{1}{w^{12}}}$

5.) $(3x)^{-1}$

$\frac{1}{(3x)^1} = \boxed{\frac{1}{3x}}$

6.) $(5a)^{-2}$

$\frac{1}{(5a)^2} = \frac{1}{5a \cdot 5a}$

$= \boxed{\frac{1}{25a^2}}$

Simplify each expression to have positive exponents.

7.) $4c^{-3}$

$\frac{4}{c^3}$

8.) $2pr^{-5}$

$\frac{2p}{r^5}$

9.) $-6q^{-2}$

$\frac{-6}{q^2}$

Simplify each expression to have positive exponents.

10.) $-18a^2b^{-3}$

$\frac{-18a^2}{b^3}$

11.) $\frac{1}{x^{-2}}$

$1x^2$

x^2

12.) $\frac{5}{z^{-3}}$

$5z^3$

Simplify each expression to have positive exponents.

13.) $\frac{2x}{a^{-4}}$ $-2xa^4$

14.) $\frac{3b}{-5c^{-1}}$ $\frac{3bc}{-5}$

15.) $\frac{a^{-1}}{b^{-1}}$ $\frac{b}{a}$

Simplify each expression to have positive exponents.

16.) $\frac{2n^{-2}}{3p^{-3}}$ $\frac{2p^3}{3n^2}$

17.) $-\frac{xy^{-1}}{9z^{-2}}$ $\frac{-xz^2}{9y}$

18.) $\frac{4ab^{-2}}{-3c^{-2}}$ $\frac{4ac^2}{-3b^2}$

Simplify each expression to have positive exponents.

19.) $\frac{(ab)^{-1}}{cd^{-2}}$

$\frac{d^2}{cab}$

20.) $\frac{w(xy)^{-2}}{(3tv)^{-2}}$

$\frac{w(3tv)^2}{(xy)^2}$

$\frac{w \cdot 3tv \cdot 3tv}{xy \cdot xy}$

$\frac{9wt^2v^2}{x^2y^2}$

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

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

$\frac{4}{3}$

Simplify each expression to have positive exponents.

22.) $\left(\frac{2}{5}\right)^{-2}$

$\left(\frac{5}{2}\right)^2 = \frac{5}{2} \cdot \frac{5}{2}$

$= \frac{25}{4}$

23.) $\left(\frac{2a}{9c}\right)^{-2}$

$\left(\frac{9c}{2a}\right)^2 = \frac{9c}{2a} \cdot \frac{9c}{2a}$

$= \frac{81c^2}{4a^2}$

24.) $\left(\frac{5x}{3yz}\right)^{-3}$

$\left(\frac{3yz}{5x}\right)^3$

$\frac{27y^3z^3}{125x^3}$