INDILES
EXERCISE


Indices
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1. $5 m^{4} \times 3 m^{2}=15 m^{6}$
2. $3 q^{3} \times 4 q^{4}=12 q^{7}$
3. $20 y^{5} \div 4 y=5 y^{4}$
4. $6 h^{6} \div 2 h^{2}=3 h^{4}$
5. $\left(2 p^{2}\right)^{4}=16 p^{8}$
6. $\left(2 p^{5}\right)^{3}=8 p^{15}$
7. $5^{1}=5$
8. $3^{0}=1$
9. $4^{-3}=\frac{1}{4^{3}}=\frac{1}{64}$
10. $25^{\frac{1}{2}}=\sqrt[2]{25}=5$
11. 
12. 

$$
\begin{aligned}
8^{5 / 3} & =(\sqrt[3]{8})^{5} \\
& =2^{5} \\
& =32
\end{aligned}
$$

$$
16^{-\frac{1}{4}}=\frac{1}{16^{\frac{1}{4}}}
$$

$$
=\frac{1}{\sqrt[2]{16}}
$$

$$
=\frac{1}{2}
$$

13. 

$$
\begin{aligned}
27^{-2 / 3} & =\frac{1}{27^{2 / 3}} \\
& =\frac{1}{(\sqrt[3]{27})^{2}}
\end{aligned}
$$

$$
\begin{aligned}
& =\frac{1}{3^{2}} \\
& =\frac{1}{9}
\end{aligned}
$$

14. $3 p^{4} q^{2} r \times 2 p q^{5} r^{2}$

$$
=6 p^{5} q^{7} r^{3}
$$

15. 

$$
\begin{aligned}
& 8 m^{4} n \div 2 m^{2} n^{3} \\
= & \frac{4 m^{2}}{n^{2}}
\end{aligned}
$$



