



## Exponent and square roots worksheet

1. $x^5(2x^3)$	2. $(-6m^2n^2)(3mn)$
3. $\left(\frac{3x^2}{2}\right)^2$	4. $y^4 \times \sqrt{\frac{25}{y^8}}$
5. $\frac{2^8 \times a^5}{4^3 \times a^3}$	6. $\left[\left(-\frac{3}{4}\right)^{-2}\right]^2$



7.  $(18)^{\frac{3}{2}} \times (6)^{-\frac{1}{2}} \times \frac{1}{\sqrt{27}}$

8.  $\left(2\frac{1}{4}\right)^{-\frac{1}{2}} \times \left(3\frac{3}{8}\right)^{\frac{1}{2}}$

9.  $\frac{(2r^{-1}s^2t^0)^{-2}}{2rs}$

10.  $\left[\left(\frac{1}{4}\right)^{-3} - \left(\frac{1}{3}\right)^{-3}\right] \div \left(\frac{1}{6}\right)^{-3}$



## Answers

1.  $2x^8$
2.  $-18m^3n^3$
3.  $(9/4) x^4$
4. 5
5.  $4a^2$
6.  $256/81$
7. 972
8.  $\frac{1}{2}$
9.  $r/(8s^5)$
10.  $37/216$