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Math worksheet on *'Radicals - Square - Simplifying, Values and Variables, Nothing Remaining (Level 3)'*. Part of a broader unit on *'Radicals - Simplifying Advanced'*

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1 Simplify the radical $\sqrt{4p^4m^2}$

a $2pm^2$	**b** $2p^2m$	**c** $5pm$
d $pm\sqrt{2}$	**e** $4pm^2\sqrt{2}$	**f** p^3m

2 Simplify the radical $\sqrt{4x^2n^4}$

a x^3n^3	**b** $4xn\sqrt{2}$	
c $2xn^2$	**d** $4x^2n^4\sqrt{2}$	
e xn^4	**f** xn	

3 Simplify the radical $\sqrt{16x^2r^4}$

a x^3r^2	**b** $3xr\sqrt{3}$	**c** $2xr\sqrt{3}$
d $5xr^3$	**e** $3x^2r^4$	**f** $4xr^2$

4 Simplify the radical $\sqrt{4c^4r^2}$

a $2c^2r$	**b** c^3r^3	**c** cr
d c^2r^3	**e** c^2r	**f** $2c^2r\sqrt{4}$

5 Simplify the radical $\sqrt{9y^4n^4}$

a $4y^4n\sqrt{4}$	**b** $y^3n^2\sqrt{4}$	**c** yn
d $y^2n^2\sqrt{3}$	**e** $4yn^2$	**f** $3y^2n^2$

6 Simplify the radical $\sqrt{9z^2b^2}$

a $6z^3b\sqrt{3}$	**b** $4z^3b\sqrt{2}$	**c** $3zb^3$
d $3zb$	**e** $2z^3b$	**f** $3zb\sqrt{4}$

7 Simplify the radical $\sqrt{25b^2m^4}$

a	$5bm$	**b**	$3b^2m^2\sqrt{4}$
c	$7bm\sqrt{2}$	**d**	$5bm^2$
e	$3bm^2\sqrt{3}$	**f**	$8bm^2$