Simplifying Radicals – Identification of prime factors

$\sqrt{3696} =$	$\sqrt{3600} =$	$\sqrt{576} =$	$\sqrt{25600} =$
1. $\sqrt{2^4 \cdot 3 \cdot 7 \cdot 11} =$	2. $\sqrt{2^4 \cdot 3^2 \cdot 5^2} =$	3. $\sqrt{2^6 \cdot 3^2} =$	4. $\sqrt{2^{10} \cdot 5^2} =$
$2^2\sqrt{3 \cdot 7 \cdot 11}$	$2^2 \cdot 3 \cdot 5$	$2^3 \cdot 3$	$2^5 \cdot 5$
$\sqrt{140625} =$	$\sqrt{518400} =$	$\sqrt{17424} =$	$\sqrt{676} =$
5. $\sqrt{3^2 \cdot 5^6} =$	6. $\sqrt{2^8 \cdot 3^4 \cdot 5^2} =$	7. $\sqrt{2^4 \cdot 3^2 \cdot 11^2} =$	8. $\sqrt{2^2 \cdot 13^2} =$
$3 \cdot 5^3$	$2^4 \cdot 3^2 \cdot 5$	$2^2 \cdot 3 \cdot 11$	$2 \cdot 13$
$\sqrt{729} =$	$\sqrt{1024} =$	$\sqrt{8100} =$	$\sqrt{2025} =$
9. $\sqrt{3^6} =$	10. $\sqrt{2^{10}} =$	11. $\sqrt{2^2 \cdot 3^4 \cdot 5^2} =$	12. $\sqrt{3^4 \cdot 5^2} =$
3^3	2^5	$2 \cdot 3^2 \cdot 5$	$3^2 \cdot 5$
$\sqrt{7744} =$	$\sqrt{1156} =$	$\sqrt{10000} =$	$\sqrt{11025} =$
13. $\sqrt{2^6 \cdot 11^2} =$	14. $\sqrt{2^2 \cdot 17^2} =$	15. $\sqrt{2^4 \cdot 5^4} =$	16. $\sqrt{3^2 \cdot 5^2 \cdot 7^2} =$
$2^3 \cdot 11$	$2 \cdot 17$	$2^2 \cdot 5^2$	$3 \cdot 5 \cdot 7$
$\sqrt{3675} =$	$\sqrt{12348} =$	$\sqrt{2376} =$	$\sqrt{5733} =$
17. $\sqrt{3 \cdot 5^2 \cdot 7^2} =$	18. $\sqrt{2^2 \cdot 3^2 \cdot 7^3} =$	19. $\sqrt{2^3 \cdot 3^3 \cdot 11} =$	20. $\sqrt{3^2 \cdot 7^2 \cdot 13} =$
$5 \cdot 7 \cdot \sqrt{3}$	$2 \cdot 3 \cdot 7 \cdot \sqrt{7}$	$2 \cdot 3 \cdot \sqrt{2 \cdot 3 \cdot 11}$	$3 \cdot 7 \cdot \sqrt{13}$
$\sqrt{4675} =$	$\sqrt{33516} =$	$\sqrt{16560} =$	$\sqrt{54432} =$
21. $\sqrt{5^2 \cdot 11 \cdot 17} =$	22. $\sqrt{2^2 \cdot 3^2 \cdot 7^2 \cdot 19} =$	23. $\sqrt{2^4 \cdot 3^2 \cdot 5 \cdot 23} =$	24. $\sqrt{2^5 \cdot 3^5 \cdot 7} =$
$5 \cdot \sqrt{11 \cdot 17}$	$2 \cdot 3 \cdot 7 \cdot \sqrt{19}$	$2^2 \cdot 3 \cdot \sqrt{5 \cdot 23}$	$2^2 \cdot 3^2 \cdot \sqrt{2 \cdot 3 \cdot 7}$