

490: 1-15

1. $\sqrt{4}$

6. $2\sqrt{3}$

11. $4\sqrt{6}$

2. 5

7. $3\sqrt{2}$

12. 24

3. ~~18~~ $18\sqrt{2}$

8. $2\sqrt{10}$

13. $12\sqrt{5}$

4. 147

9. $5\sqrt{3}$

14. 28

5. 8

10. $\sqrt{85}$

15. $6\sqrt{23}$

#4. $(7\sqrt{3})^2$
 $7^2\sqrt{3}^2$

$$\begin{array}{r} 49 \\ \times 3 \\ \hline 147 \end{array}$$

#5 $(2\sqrt{2})^2$
 $2^2\sqrt{2}^2$

$$4 \times 2 = 8$$

12. $\sqrt{576}$

Handwritten prime factorization for $\sqrt{576}$:

576 is divided by 2, resulting in 288. 288 is divided by 2, resulting in 144. 144 is divided by 2, resulting in 72. 72 is divided by 2, resulting in 36. 36 is divided by 2, resulting in 18. 18 is divided by 2, resulting in 9. 9 is divided by 3, resulting in 3. 3 is divided by 3, resulting in 1.

The final result is $= 24$.

The prime factors 12 and 12 are circled, and 12 is written below them.