

Section 12-6: Multiplication of Square-Root Radicals

1. 060627a, P.I. A.N.3

Expressed in simplest radical form, the product of $\sqrt{6} \cdot \sqrt{15}$ is

- [A] $3\sqrt{15}$ [B] $\sqrt{90}$
[C] $3\sqrt{10}$ [D] $9\sqrt{10}$

2. 010103a, P.I. A2.A.13

If $x > 0$, the expression $(\sqrt{x})(\sqrt{2x})$ is equivalent to

- [A] $x\sqrt{2}$ [B] $x^2\sqrt{2}$
[C] $\sqrt{2x}$ [D] $2x$

3. 060218a, P.I. A.N.3

The expression $\sqrt{90} \cdot \sqrt{40} - \sqrt{8} \cdot \sqrt{18}$ simplifies to

- [A] 22.9 [B] 3,456 [C] 864 [D] 48

[1] C

[2] A

[3] D