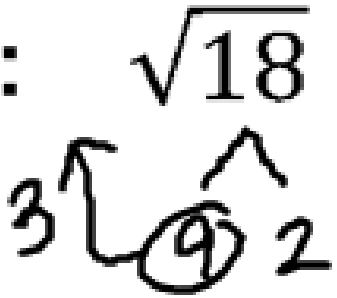
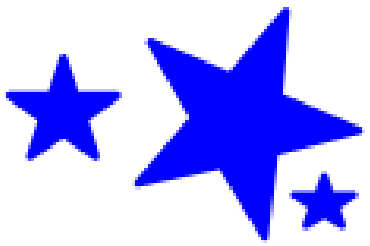
Operations with Square Roots

Ex: $\sqrt{18}$



$3\sqrt{2}$

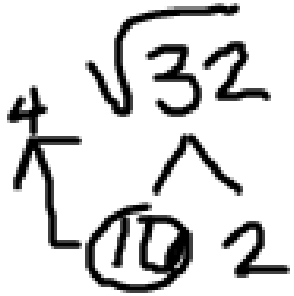


$\sqrt{32}$

$2\sqrt{8}$

$4\sqrt{2}$

$\sqrt{32}$



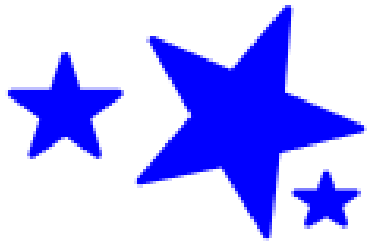
$4\sqrt{2}$

Ex: $5\sqrt{18}$

$15\sqrt{2}$

Ex: $3\sqrt{16}$

$3 \cdot 4$ $\boxed{12}$

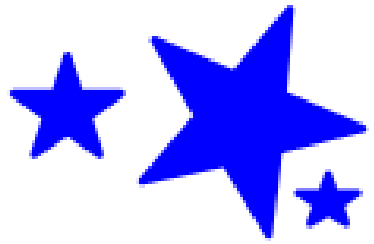


Ex: $\frac{8\sqrt{10}}{6}$ $\boxed{\frac{4\sqrt{10}}{3}}$

$\frac{8x}{6}$

$\frac{4x}{3}$

Ex: $\frac{4\sqrt{2}}{12}$ $\frac{1\sqrt{2}}{3}$ $\boxed{\frac{\sqrt{2}}{3}}$



Ex: $\frac{3\sqrt{28}}{2}$ $\frac{6\sqrt{7}}{2}$ $\boxed{3\sqrt{7}}$

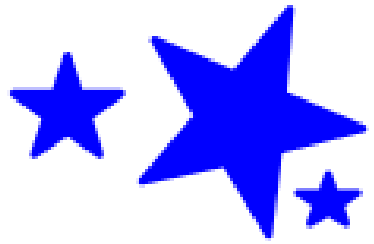
$\frac{3\sqrt{7}}{1}$

Ex: $\dfrac{7}{\sqrt{3}} \cdot \dfrac{\sqrt{3}}{\sqrt{3}} = \dfrac{7\sqrt{3}}{\sqrt{9}}$

$= \boxed{\dfrac{7\sqrt{3}}{3}}$

Ex: $\dfrac{5\sqrt{2}}{6\sqrt{3}} \cdot \dfrac{\sqrt{3}}{1\sqrt{3}} = \dfrac{5\sqrt{6}}{6 \cdot 3} = \boxed{\dfrac{5\sqrt{6}}{18}}$

Ex: $\sqrt{5} \cdot \sqrt{3}$ $\sqrt{15}$



Ex: $2\sqrt{7} \cdot 3\sqrt{8}$

$2\sqrt{7} \cdot 6\sqrt{2}$

$12\sqrt{14}$

$6\sqrt{56}$

$2 \cdot 4 \cdot 14$

$12\sqrt{14}$

Ex: $\sqrt{2} \cdot \sqrt{2}$ $\boxed{2}$