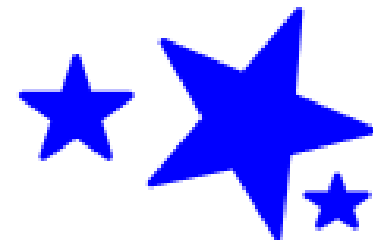


Operations with Square Roots

Ex: $\sqrt{18}$
3 ↑ $\textcircled{9}$ ^ 2

$3\sqrt{2}$



$\sqrt{32}$
2 ↑ $\textcircled{4}$ ^ 8

$\sqrt{32}$
4 ↑ $\textcircled{16}$ ^ 2

Ex: $5\sqrt{18}$
3 ↑ $\textcircled{9}$ ^ 2

$15\sqrt{2}$

$2\sqrt{8}$
2 ↑ $\textcircled{4}$ ^ 2

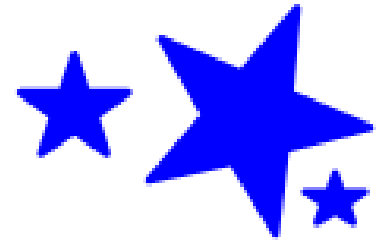
$4\sqrt{2}$

$4\sqrt{2}$

Ex: $3\sqrt{16}$

$$3 \cdot 4$$

$$\boxed{12}$$



Ex:

$$\frac{8\sqrt{10}}{6}$$

$$\frac{4\sqrt{10}}{3}$$

$$\frac{8x}{6}$$

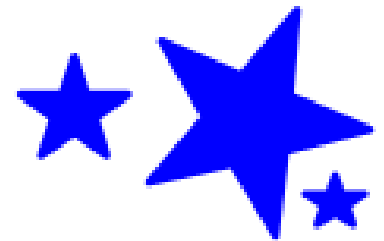
$$\frac{4x}{3}$$

Ex:

$$\frac{4\sqrt{2}}{12}$$

$$\frac{1\sqrt{2}}{3}$$

$$\frac{\sqrt{2}}{3}$$



Ex:

$$\frac{3\sqrt{28}}{2}$$

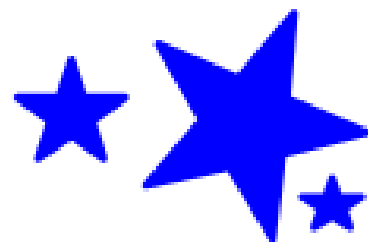
Handwritten annotations: a circled '4' with an arrow pointing to the '28' in the numerator, and a '7' with an arrow pointing to the '28'.

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

$$3\sqrt{7}$$

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

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

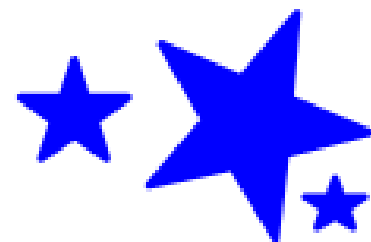


$= \boxed{\frac{7\sqrt{3}}{3}}$

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

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

$\sqrt{15}$



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

$\frac{1}{2} \oplus 2$

$6\sqrt{56}$
 $2 \oplus 4 \oplus 14$

$12\sqrt{14}$

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

$12\sqrt{14}$

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

