

# Faktoren unter die Wurzel bringen

Arbeitsblatt

<b>Musterbeispiel:</b> $5 \cdot \sqrt{3} = \sqrt{25 \cdot 3} = \sqrt{75}$	$\sqrt{288}$	$\sqrt{63}$	$\sqrt{201}$	$\sqrt{968}$
	$\sqrt{33}$	$\sqrt{48}$	$\sqrt{931}$	$\sqrt{20}$
	$\sqrt{275}$	$\sqrt{700}$	$\sqrt{66}$	$\sqrt{500}$

$2 \cdot \sqrt{5} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$10 \cdot \sqrt{5} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$3 \cdot \sqrt{7} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$4 \cdot \sqrt{3} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$5 \cdot \sqrt{11} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$12 \cdot \sqrt{2} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$7 \cdot \sqrt{19} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$11 \cdot \sqrt{8} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

<b>Musterbeispiel:</b> $\frac{2}{3} \cdot \sqrt{3} = \sqrt{\frac{4}{9} \cdot 3} = \sqrt{\frac{4 \cdot 3}{9}} = \sqrt{\frac{4}{3}}$	$\sqrt{\frac{1}{2}}$	$\sqrt{\frac{2}{3}}$	$\sqrt{\frac{7}{9}}$	$\sqrt{10}$
	$\sqrt{\frac{4}{5}}$	$\sqrt{\frac{1}{5}}$	$\sqrt{\frac{9}{8}}$	$\sqrt{\frac{16}{5}}$

$\frac{1}{4} \cdot \sqrt{8} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$\frac{1}{5} \cdot \sqrt{5} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$\frac{4}{5} \cdot \sqrt{5} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$\frac{3}{4} \cdot \sqrt{2} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$\frac{1}{2} \cdot \sqrt{40} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$\frac{4}{10} \cdot \sqrt{5} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

<b>Musterbeispiel:</b> $0,4 \cdot \sqrt{5} = \sqrt{0,16 \cdot 5} = \sqrt{0,8}$	$\sqrt{0,1}$	$\sqrt{3,2}$	$\sqrt{0,45}$	$\sqrt{2}$
	$\sqrt{4,2}$	$\sqrt{0,12}$	$\sqrt{7}$	$\sqrt{0,72}$

$0,2 \cdot \sqrt{3} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$0,3 \cdot \sqrt{5} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$0,5 \cdot \sqrt{8} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$0,6 \cdot \sqrt{2} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$0,1 \cdot \sqrt{10} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$0,8 \cdot \sqrt{5} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$