



## Practice Run

- Identify the radicals in simplest form with a check mark.
- Simplify all radicals **not** in simplest form.
- State whether the radical is a Rational (Q) or Irrational ( $\overline{Q}$ ) Number.
- Use a calculator to find the value, correct to three decimal places, where needed.

Radical	Simplest form ✓	Steps to simplest form	Q	$\overline{Q}$	Value correct to three decimals (where needed)
$2\sqrt{32}$					
$\sqrt{44}$					
$\sqrt{196}$					
$45\sqrt{2}$					



Compare your answers.

- Identify the radicals in simplest form with a check mark.
- Simplify all radicals **not** in simplest form.
- State whether the radical is a Rational (Q) or Irrational ( $\bar{Q}$ ) Number.
- Use a calculator to find the value, correct to three decimal places, where needed.

Radical	Simplest form ✓	Steps to simplest form	Q	$\bar{Q}$	Value correct to three decimals (where needed)
$2\sqrt{32}$		$2\sqrt{32}$ $= 2\sqrt{16 \times 2}$ $= 2\sqrt{4^2 \times 2}$ $= 2 \times 4\sqrt{2}$ $= 8\sqrt{2}$		✓	11.314
$\sqrt{44}$		$\sqrt{44}$ $= \sqrt{4 \times 11}$ $= \sqrt{2^2 \times 11}$ $= 2\sqrt{11}$		✓	6.633
$\sqrt{196}$		$\sqrt{196}$ $= 14$	✓		14
$45\sqrt{2}$	✓			✓	63.640