Simplifying surds *lesson handout*

Step check

The square numbers.

1^2	2^2	3^2	4^2	5^2	6^2	7^2	8^2	9^2	10^2	11^2	12^2

We do

Write 72 as its largest square factor × another number.

4, 9,

$72 = \square \times \square$

You do

Write 50 as its largest square factor × another number.

$50 = \square \times \square$

You do

Write 45 as its largest square factor × another number.

$45 = \square \times \square$

We do

Simplify $\sqrt{72}$.

$\sqrt{72} = \sqrt{\boxed{36}} \times \sqrt{\boxed{2}}$

$= \square\sqrt{\square}$

You do

Simplify $\sqrt{50}$.

$\sqrt{50} = \sqrt{\square} \times \sqrt{\square}$

$= \square\sqrt{\square}$

You do

Simplify $\sqrt{45}$.

$\sqrt{45} = \sqrt{\square} \times \sqrt{\square}$

$= \square\sqrt{\square}$