

Ratio Problems with Surds

Write each ratio in its simplest form.

$$\sqrt{20} : \sqrt{45}$$

$$\sqrt{63} : \sqrt{28} : \sqrt{175}$$

$$a = \sqrt{11} : \sqrt{c}$$

$$b = \sqrt{44} : \sqrt{d}$$

Given that $c:d$ is in the
ratio 1:4

Find the ratio $a:b$

$$a = \sqrt{3} : \sqrt{c}$$

$$b = \sqrt{48} : \sqrt{d}$$

Given that $c:d$ is in the
ratio 1:16

Find the ratio $a:b$

$$a = \sqrt{7} : \sqrt{c}$$

$$b = \sqrt{63} : \sqrt{d}$$

Given that $c:d$ is in the
ratio 1:9

Find the ratio $a:b$

$$a = \sqrt{12} : \sqrt{c}$$

$$b = \sqrt{192} : \sqrt{d}$$

Given that $c:d$ is in the
ratio 1:4

Find the ratio $a:b$



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