



Exit Ticket E6 - Rationalise the Denominator

Name:.....

Date:.....

$\frac{5}{\sqrt{6}}$ Which would be a good first step to rationalise the denominator?

A $\frac{5}{\sqrt{6}} \times \frac{\sqrt{6}}{\sqrt{6}}$ **B** $\frac{5}{\sqrt{6}} \times \sqrt{6}$

C $\frac{5}{\sqrt{6}} \times \frac{\sqrt{2}}{\sqrt{2}}$ **D** $\frac{5}{\sqrt{6}} \times \frac{5}{\sqrt{6}}$

Correct Answer: A B C D

Explanation:

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$\frac{3\sqrt{2}}{\sqrt{5}} \times \frac{\sqrt{5}}{\sqrt{5}} =$

Which of the answers below is correct?

A $\frac{\sqrt{30}}{5}$ **B** $\frac{3\sqrt{10}}{5}$

C $\frac{\sqrt{30}}{25}$ **D** $\frac{3\sqrt{10}}{\sqrt{5}}$

Correct Answer: A B C D

Explanation:

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Diagnostic Questions

What would be a good first step to rationalise the denominator of:

$$\frac{5}{1 + \sqrt{2}}$$

A $\frac{5}{1 + \sqrt{2}} \times \frac{1 + \sqrt{2}}{1 + \sqrt{2}}$

B $\frac{5}{1 + \sqrt{2}} \times \frac{1 - \sqrt{2}}{1 - \sqrt{2}}$

C $\frac{5}{1 + \sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}}$

D $\frac{5}{1 + \sqrt{2}} \times \frac{5}{1 - \sqrt{2}}$

Correct Answer: A B C D

Explanation:

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