Rationalising the denominator *lesson handout*

Turn and talk

Write $\frac{1}{2}$ in as many ways as you can.

We do

Rationalise the denominator. $\frac{1}{\sqrt{5}}$

$$\frac{1}{\sqrt{5}} \times \frac{\sqrt{5}}{\sqrt{5}} = \frac{\square}{\square}$$

You do

Rationalise the denominator. $\frac{2}{\sqrt{3}}$

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

You do

Rationalise the denominator. $\frac{4}{\sqrt{7}}$

$$\frac{4}{\sqrt{7}} \times \frac{\square}{\square} = \frac{\square}{\square}$$

We do

Rationalise the denominator. $\frac{10}{\sqrt{5}}$

$$\frac{10}{\sqrt{5}} \times \frac{\sqrt{5}}{\sqrt{5}} = \frac{10\sqrt{5}}{5}$$

$$= \square\sqrt{\square}$$

You do

Rationalise the denominator. $\frac{12}{\sqrt{3}}$

$$\frac{12}{\sqrt{3}} \times \frac{\square}{\square} = \frac{\square}{\square}$$

$$= \square\sqrt{\square}$$

You do

Rationalise the denominator. $\frac{14}{\sqrt{7}}$

$$\frac{14}{\sqrt{7}} \times \frac{\square}{\square} = \frac{\square}{\square}$$

$$= \square\sqrt{\square}$$