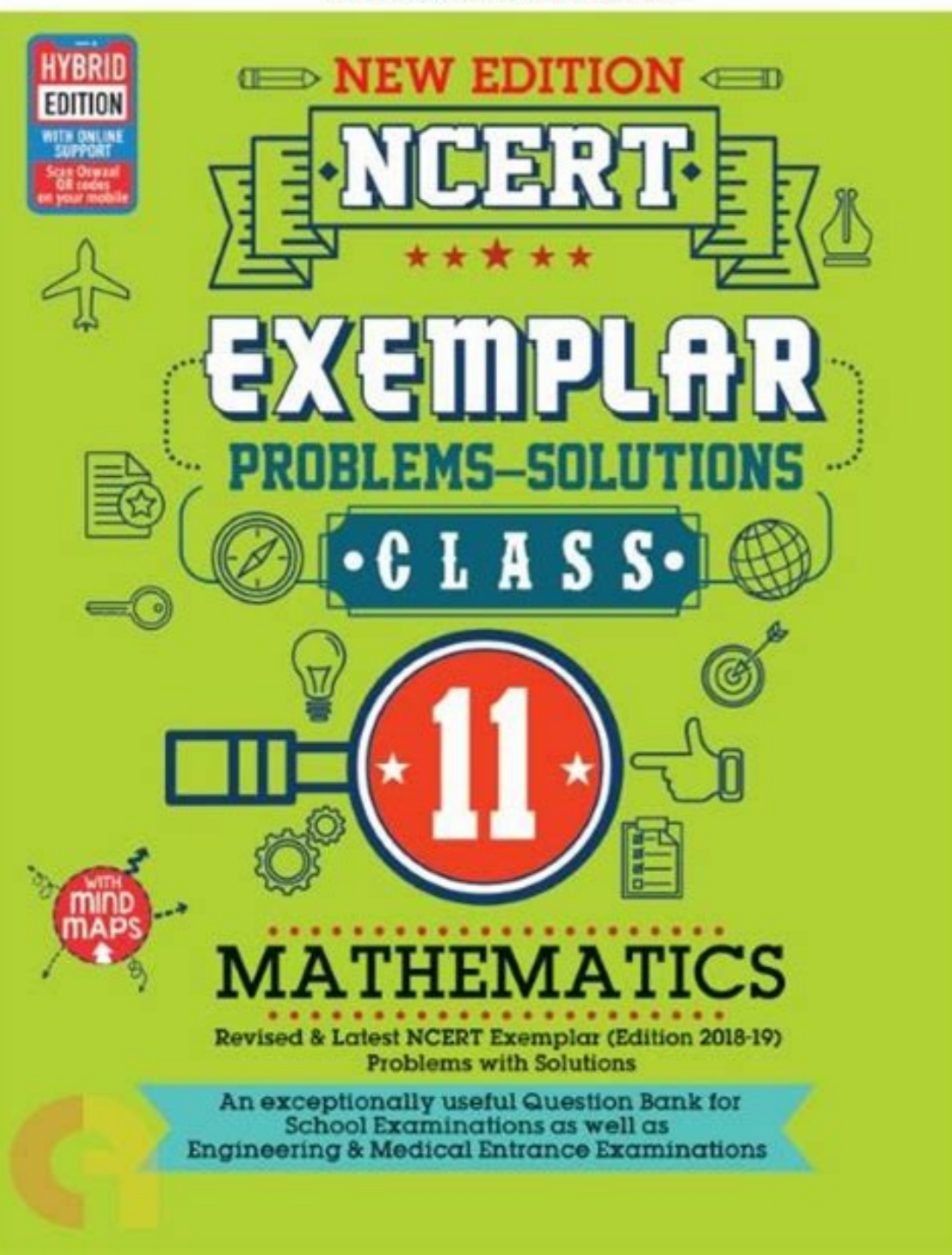


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Class IX Chapter 3 – Rationalisation Maths

(iv) We have $\frac{\sqrt{10} + \sqrt{15}}{\sqrt{2}}$

Rationalising factor of denominator is $\sqrt{2}$

$$\begin{aligned} \therefore \frac{\sqrt{10} + \sqrt{15}}{\sqrt{2}} &= \frac{\sqrt{10} + \sqrt{15}}{\sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}} \\ &= \frac{(\sqrt{10} + \sqrt{15})\sqrt{2}}{(\sqrt{2})^2} \\ &= \frac{\sqrt{10} \times \sqrt{2} + \sqrt{15} \times \sqrt{2}}{2} \\ &= \frac{\sqrt{10 \times 2} + \sqrt{15 \times 2}}{2} \\ &= \frac{\sqrt{20} + \sqrt{30}}{2} = \frac{\sqrt{2 \times 10} + \sqrt{3 \times 10}}{2} \\ &= \frac{\sqrt{2} \times \sqrt{10} + \sqrt{3} \times \sqrt{10}}{2} \\ &= \frac{(1 \cdot 414 \times 3 \cdot 162) + (1 \cdot 732 \times 3 \cdot 162)}{2} \\ &= \frac{4 \cdot 471068 + 5 \cdot 476584}{2} \\ &= \frac{9 \cdot 947652}{2} = 4,973826 \approx 4.973 \end{aligned}$$

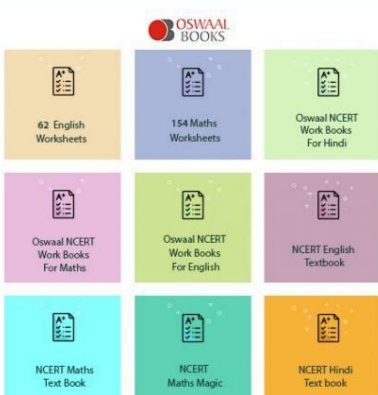
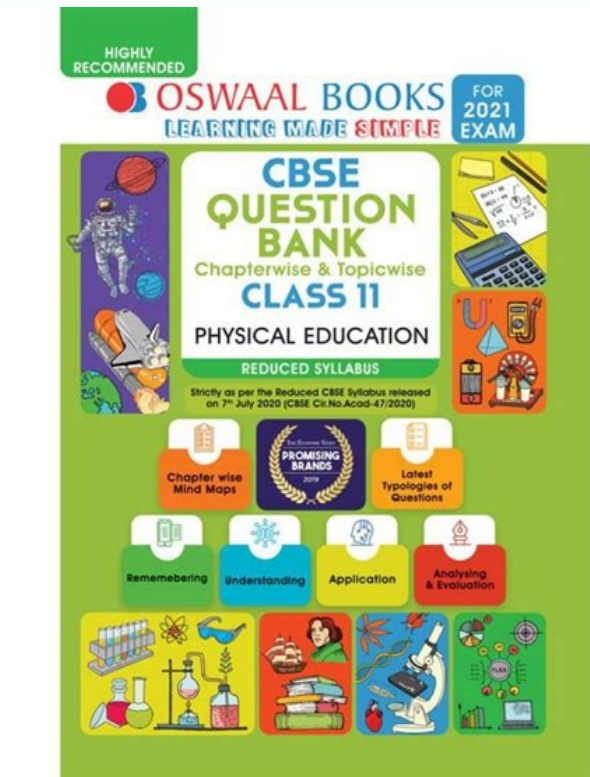
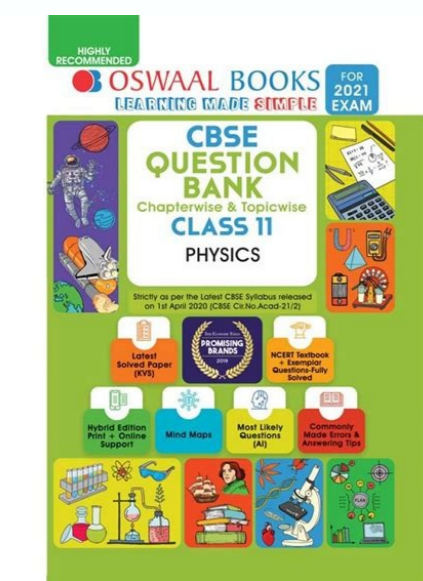
(v) We have $\frac{2 + \sqrt{3}}{3}$

$$\Rightarrow \frac{2 + 1 \cdot 732}{3} = \frac{3 \cdot 732}{3} = 1 \cdot 244$$

(vi) We have $\frac{\sqrt{2} - 1}{\sqrt{5}}$

Rationalising factor for $\frac{1}{\sqrt{5}}$ is $\sqrt{5}$

$$\Rightarrow \frac{\sqrt{2} - 1}{\sqrt{5}} = \frac{\sqrt{2} - 1}{\sqrt{5}} \cdot \frac{\sqrt{5}}{\sqrt{5}} = \frac{(\sqrt{2} \times \sqrt{5}) - (1 \times \sqrt{5})}{(\sqrt{5})^2}$$



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