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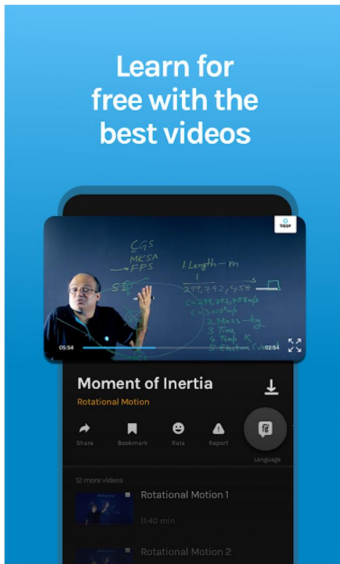
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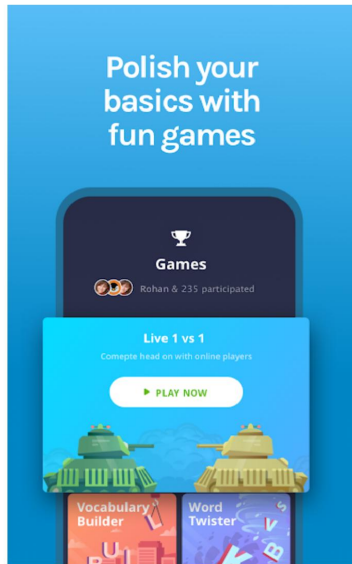


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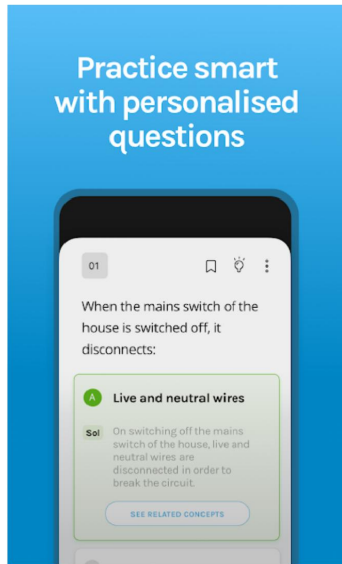
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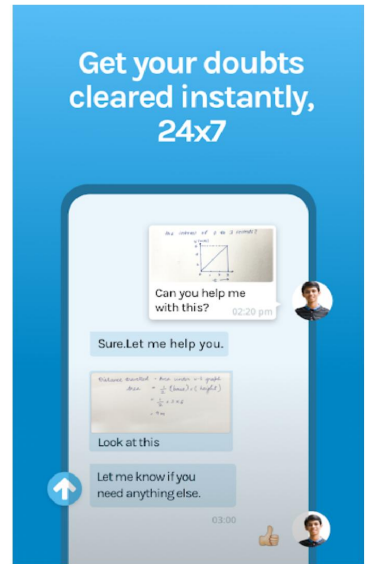
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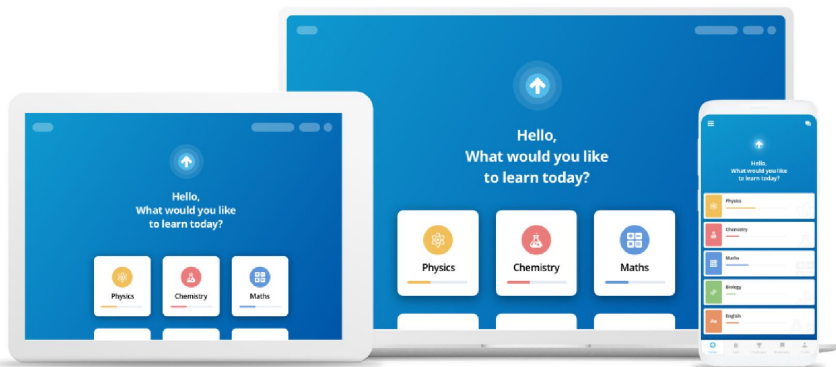
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#463125**Topic:** Percentage

Convert the following ratios to percentages.

(a) 3 : 4

(b) 2 : 3

Solution

Converting a ratio into percentage means making the denominator of the fraction = 100.

$$\text{a) } 3 : 4 = \frac{3}{4} = \frac{3 \times 25}{4 \times 25} = \frac{75}{100} = 75\%$$

$$\text{b) } 2 : 3 = \frac{2}{3} = \frac{2 \times 100}{3 \times 100} = \frac{200}{3 \times 100} = \frac{66.66}{100} = 66.66\%$$

#463139**Topic:** Profit and Loss

A VCR and TV were bought for Rs. 8,000 each. The shopkeeper made a loss of 4% on the VCR and a profit of 8% on the TV. Find the gain or loss percent on the whole transaction.

Solution

$$\text{Selling price of the TV} = 8000 + \frac{8}{100} \times 8000 = \text{Rs } 8640$$

$$\text{Selling price of the VCR} = 8000 - \frac{4}{100} \times 8000 = \text{Rs } 7680$$

$$\text{Total cost price} = \text{Rs } 8000 + 8000 = \text{Rs } 16000$$

$$\text{Total selling price} = \text{Rs } 8640 + 7680 = \text{Rs } 16320$$

$$\text{Total gain} = \text{Rs } 320$$

$$\text{Gain \%} = \frac{320}{16000} \times 100 = 2\%$$