

PERCENTAGES WITHOUT A CALCULATOR

- We learn these percentages as fractions . . .

$$50\% = \frac{1}{2}$$

$$1\% = \frac{1}{100}$$

$$33\frac{1}{3}\% = \frac{1}{3}$$

$$25\% = \frac{1}{4}$$

$$10\% = \frac{1}{10}$$

$$66\frac{2}{3}\% = \frac{2}{3}$$

$$75\% = \frac{3}{4}$$

- Find $66\frac{2}{3}\%$ of 750 ml

$$\frac{1}{3} \text{ of } 750 = 750 \div 3 = 250$$

$$\frac{2}{3} \text{ of } 750 = \begin{array}{r} \times 2 \\ \hline 500 \text{ ml} \end{array}$$

1

- Find 30% of £56

$$\frac{1}{10} \text{ of } 56 = 56 \div 10 = 5.60$$

$$\frac{3}{10} \text{ of } 56 = \begin{array}{r} \times 3 \\ \hline \text{£}16.80 \end{array}$$

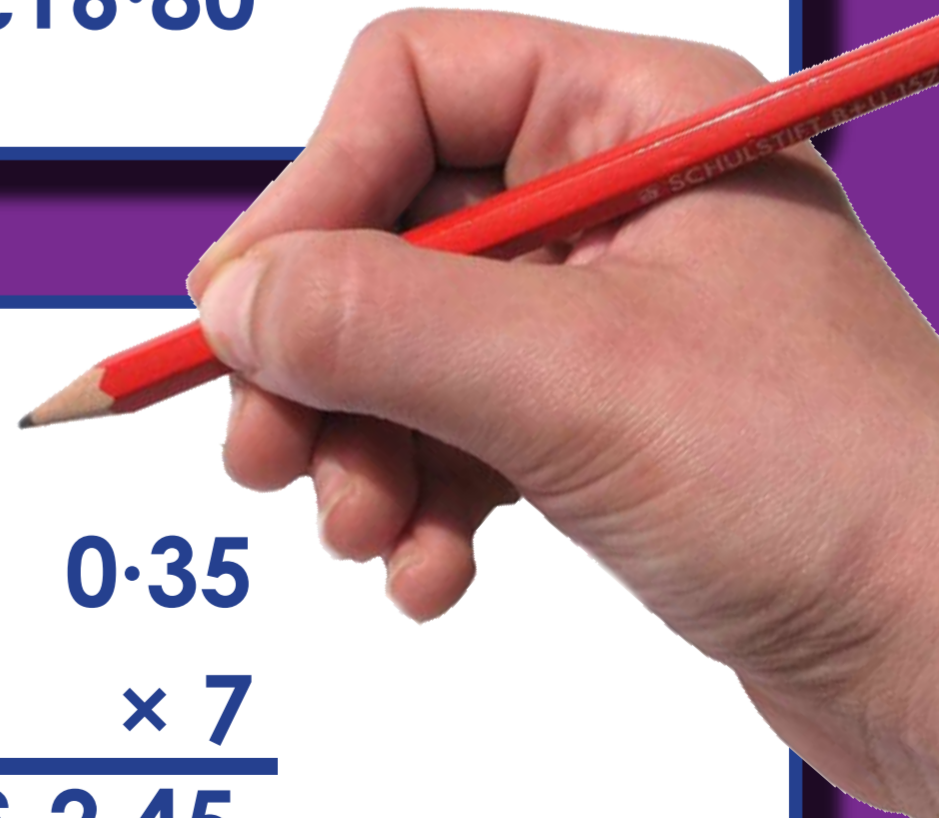
2

- Find 7% of £35

$$\frac{1}{100} \text{ of } 35 = 35 \div 100 = 0.35$$

$$\frac{7}{100} \text{ of } 35 = \begin{array}{r} \times 7 \\ \hline \text{£ } 2.45 \end{array}$$

3



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- Find $66\frac{2}{3}\%$ of 750 ml

$$\begin{array}{rclcl} \frac{1}{3} \text{ of } 750 & = & 750 \div 3 & = & 250 \\ \frac{2}{3} \text{ of } 750 & = & & & \begin{array}{r} \times 2 \\ \hline 500 \text{ ml} \end{array} \end{array}$$

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- Find 30% of £56

$$\begin{array}{rclcl} \frac{1}{10} \text{ of } 56 & = & 56 \div 10 & = & 5.60 \\ \frac{3}{10} \text{ of } 56 & = & & & \begin{array}{r} \times 3 \\ \hline \text{£}16.80 \end{array} \end{array}$$

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- Find 7% of £35

$$\begin{array}{rclcl} \frac{1}{100} \text{ of } 35 & = & 35 \div 100 & = & 0.35 \\ \frac{7}{100} \text{ of } 35 & = & & & \begin{array}{r} \times 7 \\ \hline \text{£ } 2.45 \end{array} \end{array}$$

3

- WE DO NOT . . .

 multiply or divide by 100 (except for 1%)