

$$\textcircled{1} \quad \text{Percentage Increase} = \frac{\text{change}}{\text{Original}} \times 100$$

$$= \frac{0.13}{1.52} \times 100 = 8.6\%$$

$$\textcircled{2} \quad \frac{73}{100} \times 3.50 = \pounds 2.56 \quad (20p)$$

$$\textcircled{3} \quad 500 \times 1.06^3 = \pounds 595.51 \quad (20p)$$

$$\textcircled{4} \quad \begin{array}{l} 80\% = \pounds 44 \\ \div 80 \quad \left\{ \begin{array}{l} \rightarrow 1\% = \pounds 0.55 \\ \rightarrow 100\% = \pounds 55.00 \end{array} \right. \div 80 \\ \times 100 \quad \left\{ \begin{array}{l} \rightarrow 100\% = \pounds 55.00 \\ \rightarrow 1\% = \pounds 0.55 \end{array} \right. \times 100 \end{array}$$

$$\textcircled{5} \quad \text{Percentage Decrease} = \frac{\text{Change}}{\text{Original}} \times 100$$

$$\frac{400}{3000} \times 100 = 13.3\%$$

$$\textcircled{6} \quad \frac{17.5}{100} \times 50 = \pounds 8.75$$

$$\textcircled{7} \quad 2000 \times 1.04^3 = \pounds 2249.73 \quad (20p)$$

⑧

$$\begin{array}{l}
 \div 115 \\
 \times 100
 \end{array}
 \begin{array}{l}
 \leftarrow \\
 \leftarrow
 \end{array}
 \begin{array}{l}
 115\% = \pounds 8 \\
 1\% = \pounds 0.06956\dots \\
 100\% = \pounds 6.96 \\
 \text{(20p)}
 \end{array}
 \begin{array}{l}
 \rightarrow \\
 \rightarrow
 \end{array}
 \begin{array}{l}
 \div 115 \\
 \times 100
 \end{array}$$

⑨ Percentage Increase =  $\frac{\text{Change}}{\text{Original}} \times 100$

$$\frac{5}{37} \times 100 = 13.5\%$$

⑩  $\frac{1200}{2000} = 60\%$

⑪  $\frac{75}{100} \times 2.40 = \pounds 1.80$

⑫

$$\begin{array}{l}
 \div 80 \\
 \times 100
 \end{array}
 \begin{array}{l}
 \leftarrow \\
 \leftarrow
 \end{array}
 \begin{array}{l}
 80\% = \pounds 64 \\
 1\% = \pounds 0.8 \\
 100\% = \pounds 80
 \end{array}
 \begin{array}{l}
 \rightarrow \\
 \rightarrow
 \end{array}
 \begin{array}{l}
 \div 80 \\
 \times 100
 \end{array}$$

13

$$\begin{array}{l}
 \div 125 \quad \left\{ \begin{array}{l} 125\% = \pounds 5 \\ 1\% = \pounds 0.04 \end{array} \right. \div 125 \\
 \times 100 \quad \left\{ \begin{array}{l} 100\% = \pounds 4.00 \end{array} \right. \times 100
 \end{array}$$

14

loses 12% so 88% remains.

$$5000 \times 0.88^3 = \pounds 3407.36$$

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$$\begin{array}{l}
 \div 8 \quad \left\{ \begin{array}{l} 8\% = \pounds 14 \\ 1\% = \pounds 1.75 \end{array} \right. \div 8 \\
 \times 100 \quad \left\{ \begin{array}{l} 100\% = \pounds 175 \end{array} \right. \times 100
 \end{array}$$

Old price was  $\pounds 175$

Increase =  $\pounds 14$

New Price =  $\pounds 189$ .