

Question 1

$$\frac{95}{0.8473} = 112.1208... \approx \text{£}112.12$$

Question 2

(a) Alan pays income tax at the rate of 20%. He has weekly tax credits of €63. How much income tax does he pay?

Total tax: $€510 \times 0.2 = €102$

Tax paid: €102 - €63 = €39

$$€193 \times 0.02 = €3.86$$
 $€115 \times 0.04 = €4.60$
 $€510 - (€193 + €115) = €202$
 $€202 \times 0.07 = €14.14$
USC: $€3.86 + €4.60 + €14.14 = €22.60$

(c) Alan also pays PRSI. His total weekly deductions amount to €76.92. How much PRSI does Alan pay?

$$PRSI = \text{€}76.92 - (\text{€}39 + \text{€}22.60) = \text{€}15.32$$

(a) Find the total cost to the shopkeeper.

$$25 \times 30 = 750$$

$$25 \times 20 = 500$$

$$500 + 750 = \text{\textsterling}1250$$

(b) The shopkeeper sells a blazer and a trousers as a set for €89.95. Find her profit on this transaction.

(c) The shopkeeper sells 22 blazer and trouser sets at €89.95 each. She sells the remaining 3 sets at a discount of 20% on the selling price. Find her mark up (profit as a percentage of cost price) on the total transaction.

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22 \times 89.95 = £1978.90
89.95 \times 0.8 = £71.96
3 \times 71.96 = £215.88
1978.90 + 215.88 = £2194.78
2194.78 - 1250 = 944.78 \text{ (Profit)}
\frac{944.78}{1250} \times 100 = 75.58\%
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