**10** Alex makes 80 cakes to sell.
He makes chocolate cakes, lemon cakes and fruit cakes where

$$\begin{matrix}\text{number of}\\\text{chocolate cakes}\end{matrix} : \begin{matrix}\text{number of}\\\text{lemon cakes}\end{matrix} : \begin{matrix}\text{number of}\\\text{fruit cakes}\end{matrix} = 3 : 2 : 5$$

Alex sells

all of the chocolate cakes

$\frac{3}{4}$ of the lemon cakes

$\frac{7}{8}$ of the fruit cakes

The profit he makes on each cake he sells is shown in the table.

| Type of cake | Profit per cake he sells |
|---|---|
| chocolate | £2.00 |
| lemon | £1.70 |
| fruit | £2.40 |

Work out the total profit that Alex makes from the cakes he sells.

£.....

**(Total for Question 10 is 5 marks)**

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