Q1. Mrs Jones prints books.

PRINT CHARGES

3p per page

75p for the cover

a) Jon pays **£4.35** for his book, **including the cover.**
   How many **pages** are in his book?

Show your method

$$75 + 3 \times p = 435$$

$$p \rightarrow \times 3 \rightarrow \div 75 \rightarrow 435 \rightarrow$$

$$120 \leftarrow \div 3 \leftarrow -75 \leftarrow 435$$

$$360$$

120

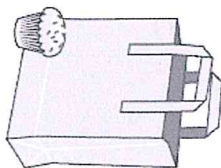$$3 \times 435$$
$$\underline{75}$$
$$360$$

b) Write a formula for the **total cost** of printing a book with cover.

   t stands for the total cost in pence.

   n stands for the number of pages.

$$t = \underline{75 + 3n}$$

Q2. Maria bakes cakes and sells them in bags.

She uses this formula to work out how much to charge for one bag of cakes.

| Cost = number of cakes × 20p + 15p for the bag |

How much will a bag of 12 cakes cost?

$12 \times 20 + 15$

$240 + 15$

£ 2 . 55

Olivia buys a bag of cakes for £5.15
Use the formula to calculate how many cakes are in the bag.

Show your method

$n \rightarrow \times 20 \rightarrow \div 15 \rightarrow 515$

$25 \leftarrow \div 20 \leftarrow - 15 \leftarrow 515$
$\quad\quad\quad 500$

25

Q3. Alfie has some photographs printed.

The cost is £2.50 for postage and 12 pence for each print.

Alfie uses this formula for the total cost (**C**) in pence.

$$C = 250 + 12n$$

n stands for the number of photographs.

The total cost for Alfie is **£6.70**

How many photographs does he have printed?

Show your method

$250 + 12n = 670$

$n \rightarrow \times 12 \rightarrow + 250 \rightarrow 670$

$35 \leftarrow \div 12 \leftarrow - 250 \leftarrow 670$
$\quad\quad\quad\quad 420$

$12\overline{)420} = 35$

35