# MISSING NUMBERS AND ALGEBRA

1.
```
        8■
      X69
      783
     5020
     5803
```

2.
```
        62
      X 3■
      310
     1860
     2170
```

3.
```
       4■
      X■7
      336
      960
     1296
```

4.
```
       3■9
      X ■4
      1236
      6180
      7416
```

5.
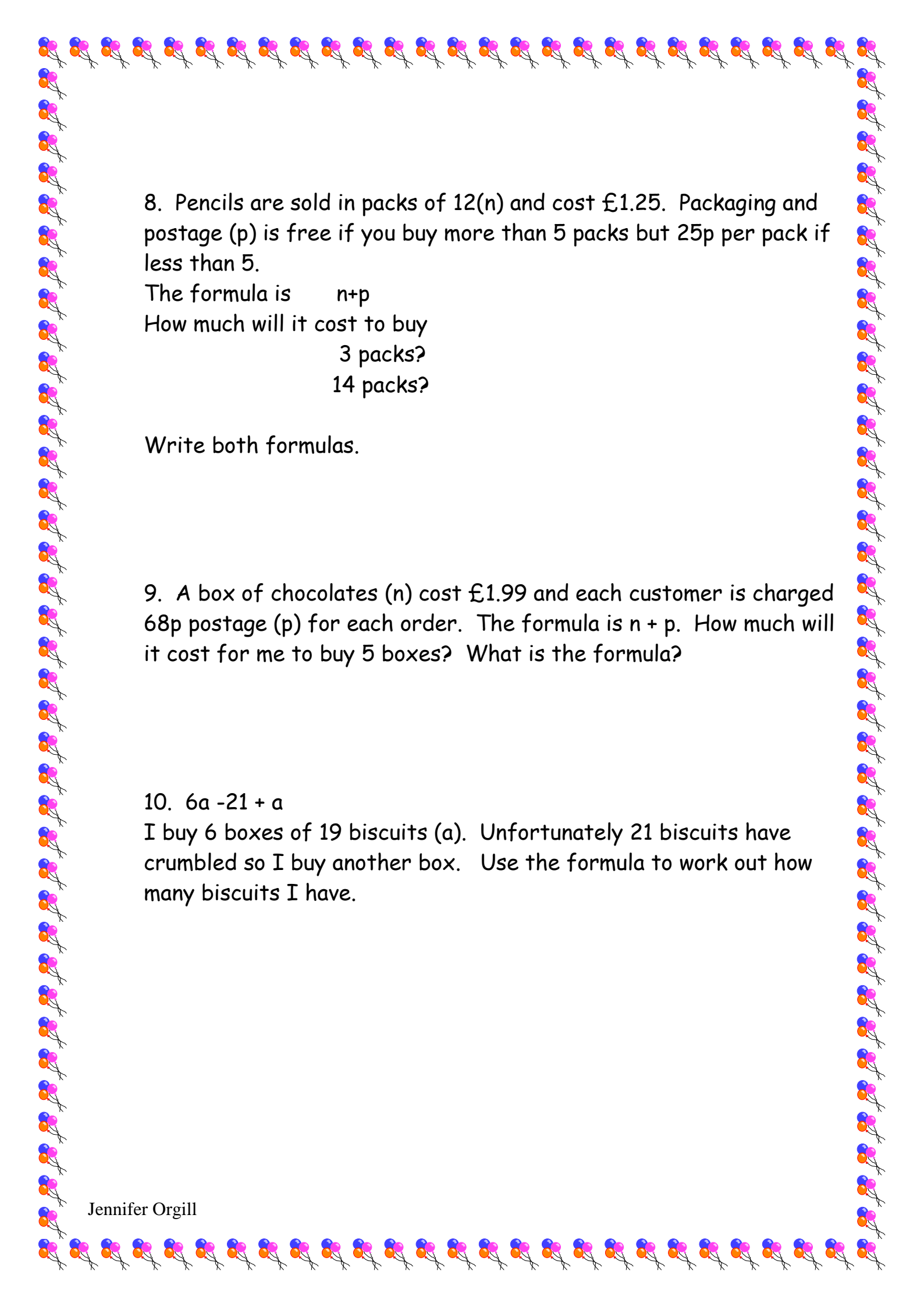```
       ■21
      X8■
     2889
    25680
    28569
```

6. X = 2y + 3
This is the formula for calculating the cost (X) of buying 2 packets of 86 balloons (y) and a balloon pump for £3.  Each packet costs 57p.  What is the total cost (X)?

7. For my BBQ I have a formula.  For every person (n) I have 3 burgers (b).

   n X 3b

How many burgers will I need for 27 guests?

Jennifer Orgill

8. Pencils are sold in packs of 12(n) and cost £1.25. Packaging and postage (p) is free if you buy more than 5 packs but 25p per pack if less than 5.
The formula is        n+p
How much will it cost to buy

3 packs?

14 packs?

Write both formulas.

9. A box of chocolates (n) cost £1.99 and each customer is charged 68p postage (p) for each order. The formula is n + p. How much will it cost for me to buy 5 boxes? What is the formula?

10. 6a -21 + a
I buy 6 boxes of 19 biscuits (a). Unfortunately 21 biscuits have crumbled so I buy another box. Use the formula to work out how many biscuits I have.

Jennifer Orgill

Answers
1.   87 x 69
2.  62 x 35
3.  48 x 27
4.  309 x 24
5.  321 x 89
6.  £4.14
7.  81
8.  3n + 3p = £4.50
    14n = £18.50
9.  5n + p = £10.66
10. 112

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