1 A cake costs c pence. A drink costs d pence.

Write an expression for the cost of 2 cakes and 6 drinks.

2 Gus is x years old.

Hal is 5 years older than Gus.

Ivy is 2 times as old as Gus.

Write expressions for the ages of Hal and Ivy.

3 Apples cost p pence each and pears cost q pence each.

Uzo says the cost of 6 apples and 3 pears is $9pq$ pence.

Explain why Uzo is wrong.

GCSE FOUNDATION · REVISION MAT 3

Forming expressions and equations

4 Show that the sum of three consecutive even numbers is always a multiple of 6.

5 Amy, Ben and Cat share some sweets.

Ben has 4 more than Amy.

Cat has twice as many as Ben.

They have 92 sweets altogether.

How many sweets does each person have?

6 An adult ticket costs £5 more than a child ticket.

2 adult tickets and 4 child tickets cost £64 altogether.

Work out the cost of an adult ticket.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 3

Forming expressions and equations

1 **$2c + 6d$**

2 Hal: **$x + 5$**

Ivy: **$2x$**

3 The cost is **$6p + 3q$** pence. These are unlike terms, so they cannot be added to make 9pq.

4 Let the numbers be $2n$, $2n + 2$, $2n + 4$

Sum = $6n + 6 = 6(n + 1)$

So the sum is always **a multiple of 6** ✓

5 Amy x, Ben $x + 4$, Cat $2x + 8$

$4x + 12 = 92$, so $x = 20$

Amy **20**, Ben **24**, Cat **48**

6 Child = c, adult = $c + 5$

$2(c + 5) + 4c = 64$

$6c = 54$, $c = 9$

Adult = **£14**

Mr&Mrs MATHS