GCSE FOUNDATION · REVISION MAT 2

Forming expressions and equations

1 A apple costs a pence.
A banana costs b pence.

Write an expression for the cost of 4 apples and 5 bananas.

2 Dan is x years old.

Eva is 7 years older than Dan.

Fay is 3 times as old as Dan.

Write expressions for the ages of Eva and Fay.

3 Apples cost x pence each and pears cost y pence each.

Tia says the cost of 3 apples and 4 pears is $7xy$ pence.

Explain why Tia is wrong.

4 Show that the sum of two consecutive odd numbers is always a multiple of 4.

5 Amy, Ben and Cat share some sweets.

Ben has 5 more than Amy.

Cat has twice as many as Ben.

They have 79 sweets altogether.

How many sweets does each person have?

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

3 adult tickets and 2 child tickets cost £68 altogether.

Work out the cost of an adult ticket.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Forming expressions and equations

1 $4a + 5b$

2 Eva: $x + 7$

Fay: $3x$

3 The cost is $3x + 4y$ pence. These are unlike terms, so they cannot be added to make 7xy.

4 Let the numbers be $2n + 1$, $2n + 3$

Sum = $4n + 4 = 4(n + 1)$

So the sum is always **a multiple of 4** ✓

5 Amy x, Ben $x + 5$, Cat $2x + 10$

$4x + 15 = 79$, so $x = 16$

Amy **16**, Ben **21**, Cat **42**

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

$3(c + 6) + 2c = 68$

$5c = 50$, $c = 10$

Adult = **£16**