GCSE FOUNDATION · REVISION MAT 5

Forming expressions and equations

1 A stamp costs s pence.
A envelope costs e pence.

Write an expression for the cost of 6 stamps and 4 envelopes.

2 Mo is x years old.

Ned is 6 years older than Mo.

Ola is 3 times as old as Mo.

Write expressions for the ages of Ned and Ola.

3 Apples cost c pence each and pears cost d pence each.

Wil says the cost of 4 apples and 5 pears is 9cd pence.

Explain why Wil is wrong.

4 Show that the sum of four consecutive whole numbers is always even.

5 Amy, Ben and Cat share some sweets.

Ben has 6 more than Amy.

Cat has twice as many as Ben.

They have 106 sweets altogether.

How many sweets does each person have?

6 An adult ticket costs £7 more than a child ticket.

2 adult tickets and 5 child tickets cost £84 altogether.

Work out the cost of an adult ticket.

Mr&Mrs MATHS

1 $6s + 4e$

2 Ned: $x + 6$

Ola: $3x$

3 The cost is $4c + 5d$ pence. These are unlike terms, so they cannot be added to make 9cd.

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Forming expressions and equations

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

Sum = $4n + 6 = 2(2n + 3)$

So the sum is always **even** ✓

5 Amy x, Ben $x + 6$, Cat $2x + 12$

$4x + 18 = 106$, so $x = 22$

Amy **22**, Ben **28**, Cat **56**

6 Child = c, adult = $c + 7$

$2(c + 7) + 5c = 84$

$7c = 70$, $c = 10$

Adult = **£17**

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