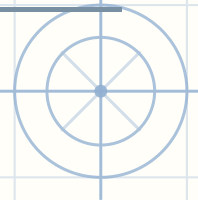


Algebra reasoning — Multiplying two brackets

Name: _____

Date: _____



Read each line of working and choose the answer that is correct.

1 Ana says $(x + 5)(x + 6) - x^2$ comes to $11x + 30$. Which is correct?

$30x + 11$

30

$x^2 + 11x + 30$

$11x + 30$

Why? nothing went wrong — the line as written is already correct.

2 Theo's answer to $(x + 8)(x + 9) - x^2$ is $17x + 17$. Which is correct?

$x^2 + 17x + 72$

$17x + 17$

$72x + 17$

$17x + 72$

Why?

3 Noor wrote $(x + 4)(x + 6) - x^2 = 10x + 24$. Which is correct?

$x^2 + 10x + 24$

24

$10x + 24$

$24x + 10$

Why?

4 Spot the mistake: $(x + 7)(x + 8) - x^2 = 15x + 15$. Which answer is right?

$15x + 15$

$56x + 15$

$15x + 56$

$x^2 + 15x + 56$

Why?



Algebra reasoning · Multiplying two brackets — Answer key

1. $(x + 5)(x + 6) - x^2 = 11x + 30$, which is what was written — this line is correct

2. $(x + 8)(x + 9) - x^2 = 17x + 72$, not $17x + 17$ (the two numbers were added where they should be multiplied)

3. $(x + 4)(x + 6) - x^2 = 10x + 24$, which is what was written — this line is correct

4. $(x + 7)(x + 8) - x^2 = 15x + 56$, not $15x + 15$ (the two numbers were added where they should be multiplied)