Name:

Exam Style Questions

Expanding Two Brackets

Corbettmaths

Equipment needed: Calculator, pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 14

Answers and Video Solutions

1. Expand and simplify $(y + 3)(y + 5)$

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(2)

2. Expand and simplify $(x + 5)(x - 1)$

.....

(2)

3. Expand and simplify $(w - 2)(w - 7)$

.....

(2)

4. Expand and simplify $(x - 10)(x + 3)$

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(2)

5. Expand and simplify $(x-4)(x+6)$

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(2)

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6. Expand and simplify $(x-3)(x+3)$

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(2)

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7. Expand and simplify $(x-7)^2$

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(2)

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8. Expand and simplify $(2y+1)(y+3)$

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(2)

9. Expand and simplify $(4x + 1)(3x - 5)$

.....

(2)

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10. Expand and simplify $(3x - 2)(2x + 3)$

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(2)

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11. Expand and simplify $(5y - 1)(y - 2)$

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(2)

12. Expand and simplify $(7x - 20)(9x - 10)$

.....

(2)

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13. Expand and simplify $(2x + 5)^2$

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(2)

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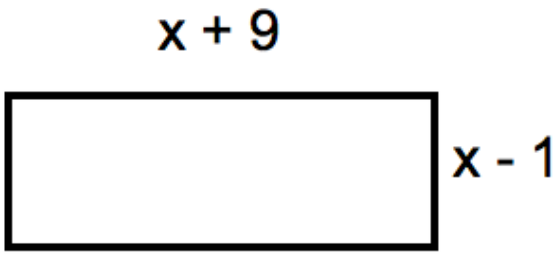
14. Expand and simplify $(4x - 3)^2$

.....

(2)

15. A rectangle is shown below.



The length of the rectangle is x + 9 cm.
The width of the rectangle is x – 1 cm.

Form an expression for the area of the rectangle.

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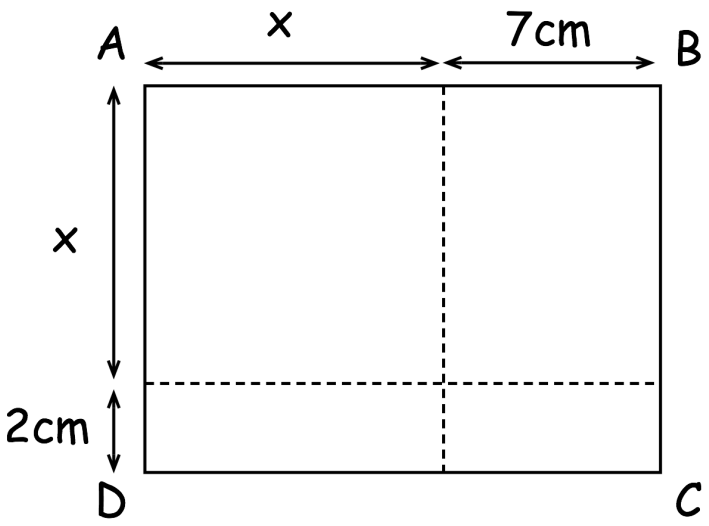
(3)

16. Rectangle ABCD is shown below.



The area rectangle ABCD is 230cm²

Show that $x^2 + 9x = 216$

(4)

17. Expand and simplify $(3 + g)(5 - g)$

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(2)

18. Micah correctly expands and simplifies $(2x + 11)(x - 3)$

Circle the term that is part of his answer

$8x$ $\quad -5x$ $\quad 5x$ $\quad -8x$

(1)

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19. Expand and simplify $(y^2 + y)(y + 3)$

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(2)

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20. Expand and simplify $(w + 3)(w + 4) + (w + 2)(w + 7)$

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(3)

21. Expand and simplify $(3y - 5)(y + 4) - (y - 3)(y - 5)$

.....

(3)

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22. Expand and simplify $(4y^2 + 5)(2y + 1) - 3y(y^2 - 6)$

.....

(4)

23. $(x + c)(x + d) \equiv x^2 + px + 72$

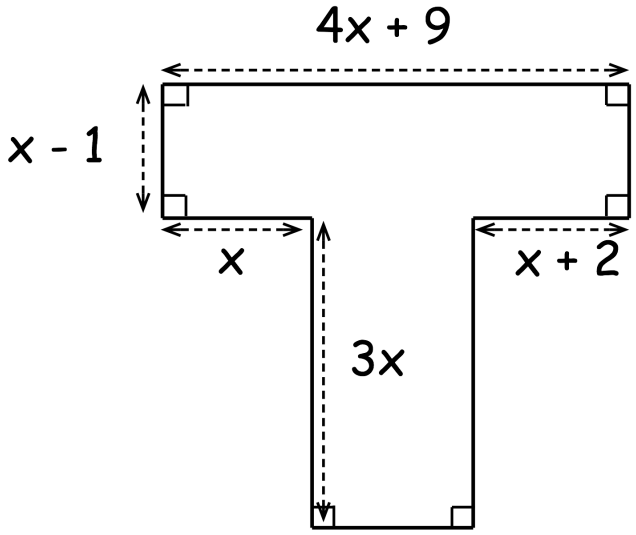
c is twice the value of d

Find two possible values of p

p = …….. or p = ……..

(3)

24.



The area of the shape shown above is A.

Show that $A = 10x^2 + 26x - 9$

(4)