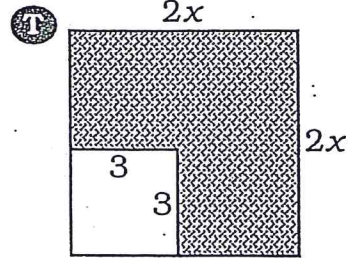
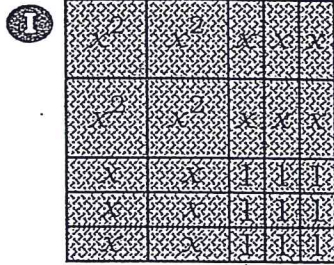
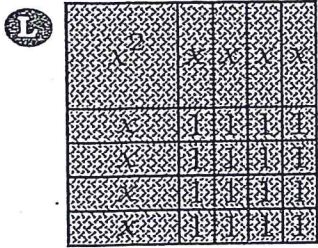


Why Did Kevin Klutz Give Up Tap Dancing?

Write the letter of the exercise in the box that contains the number of the answer.

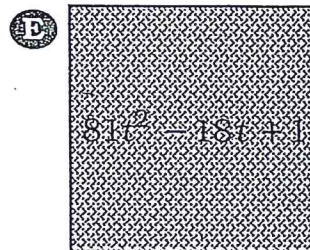
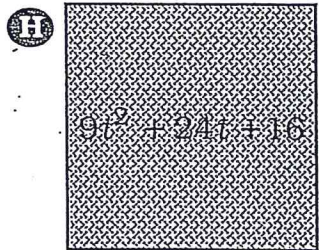
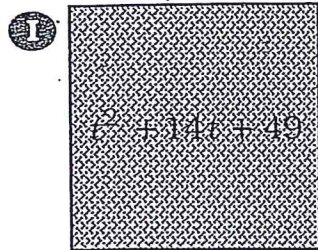
Set 1. Write a polynomial for the shaded area, then factor the polynomial.



Set 1 Answers

- 27** $(2x + 3)^2$
- 5** $(2x - 3)^2$
- 22** $(2x + 3)(2x - 3)$
- 11** $(x + 4)^2$
- 18** $(x + 3)(x - 3)$

Set 2. Find the length of a side of the square. The area is given.



Set 2 Answers

- 29** $9t + 1$
- 17** $t + 7$
- 24** $9t - 1$
- 12** $3t + 8$
- 1** $3t + 4$

Set 3. Factor the expression.

- I** $n^2 - 36$
- E** $n^2 - 12n + 36$
- T** $n^2 - 400$
- K** $n^2 + 24n + 144$
- N** $4n^2 - 25$
- O** $4n^2 + 20n + 25$

Set 3 Answers

- 23** $(2n + 15)(2n - 15)$
- 13** $(n + 6)(n - 6)$
- 14** $(2n + 5)(2n - 5)$
- 9** $(n + 12)(n - 12)$
- 19** $(n + 20)(n - 20)$
- 20** $(2n + 5)^2$
- 15** $(n - 20)^2$
- 5** $(n - 6)^2$
- 10** $(2n - 5)^2$
- 29** $(n + 12)^2$

Set 4. Factor the expression.

- T** $16a^2 - 1$
- H** $16a^2 - 8a + 1$
- A** $9a^2 - 64$
- D** $9a^2 + 48a + 64$
- N** $4 - 49a^2$
- K** $4 - 28a + 49a^2$

Set 4 Answers

- 7** $(4a + 1)(4a - 1)$
- 26** $(3a + 16)(3a - 16)$
- 18** $(2 + 7a)(2 - 7a)$
- 10** $(3a + 8)(3a - 8)$
- 12** $(4a + 2)(4a - 2)$
- 21** $(3a - 8)^2$
- 2** $(3a + 8)^2$
- 8** $(2 + 7a)^2$
- 23** $(4a - 1)^2$
- 4** $(2 - 7a)^2$

Set 5. Factor the expression.

- G** $100x^2 - y^2$
- S** $100x^2 + 20xy + y^2$
- P** $4x^2 - 81y^2$
- R** $4x^2 - 36xy + 81y^2$
- N** $64x^2 - 225y^2$
- L** $x^2 + 60xy + 900y^2$

Set 5 Answers

- 16** $(x + 30y)(x - 30y)$
- 28** $(8x + 15y)(8x - 15y)$
- 15** $(10x + y)(10x - y)$
- 25** $(4x + 15y)(4x - 15y)$
- 6** $(2x + 9y)(2x - 9y)$
- 9** $(2x - 9y)^2$
- 3** $(2x + 9y)^2$
- 26** $(10x + y)^2$
- 12** $(x + 30y)^2$
- 21** $(10x - y)^2$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
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Multiplying Binomials; Differences of Squares; Squares of Binomials

NAME _____

Express each product as a binomial.

9. $(x - 7)(x + 7)$ _____

10. $(3x - 4)(3x + 4)$ _____

11. $(2c - 5)(2c + 5)$ _____

12. $(a^2 + 2b^2)(a^2 - 2b^2)$ _____

Factor.

13. $169 - 4b^2$ _____

14. $625a^4 - 144b^2$ _____

15. $x^6 - 196$ _____

16. $121x^2 - y^2$ _____

Express each square as a trinomial.

17. $(2a - b)^2$ _____

18. $(y^2 + 5)^2$ _____

19. $(3k - 2m)^2$ _____

20. $(3a + 3b)^2$ _____

Factor each trinomial as the square of a binomial. If it is not possible, write "not factorable."

23. $x^2 - 8x + 16$ _____

24. $4a^2 - 4ab + b^2$ _____

25. $x^2 + 5x + 25$ _____

26. $9a^2 - 12ab + 4b^2$ _____