



Why Did the Boy Sheep Plunge Off a Cliff While Chasing the Girl Sheep?

Write the expression in factored form. Find the factors in the two columns of binomials. One factor has a letter and the other a number. Write the letter in the matching numbered box at the bottom.



Set 1

- a. $a^2 + 9a + 20$
- b. $a^2 + 2a - 24$
- c. $a^2 - 64$
- d. $5a^2 - a - 4$
- e. $25a^2 + 20a + 4$

Set 1 Answers

- 2** $(a - 1)$ **S** $(a - 5)$
- 12** $(a + 4)$ **T** $(5a + 2)$
- 6** $(5a + 1)$ **I** $(a + 6)$
- 23** $(a + 8)$ **E** $(a + 5)$
- 8** $(5a + 2)$ **N** $(5a - 2)$
- 15** $(a + 2)$ **E** $(5a + 4)$
- 5** $(a - 4)$ **U** $(a - 8)$

Set 3

- a. $8k^2 + 25k + 3$
- b. $8k^2 + 10k - 3$
- c. $4k^2 - 15k + 11$
- d. $4k^2 - 121$
- e. $11k^2 - 14k - 16$

Set 3 Answers

- 20** $(k - 1)$ **H** $(2k - 11)$
- 9** $(4k + 1)$ **R** $(11k - 4)$
- 10** $(k + 3)$ **H** $(4k - 1)$
- 4** $(k - 2)$ **E** $(4k - 11)$
- 1** $(2k + 3)$ **B** $(k + 4)$
- 15** $(2k + 11)$ **D** $(11k + 8)$
- 22** $(k + 1)$ **S** $(8k + 1)$

Set 2

- a. $2u^2 - 11u + 15$
- b. $49 - 16u^2$
- c. $2u^2 - 9u - 35$
- d. $7u^2 - 12u - 4$
- e. $49u^2 - 56u + 16$

Set 2 Answers

- 7** $(u + 2)$ **E** $(2u - 5)$
- 16** $(7u - 4)$ **N** $(7u + 2)$
- 14** $(7 + 4u)$ **L** $(7u + 4)$
- 20** $(2u - 7)$ **D** $(2u + 5)$
- 6** $(u - 7)$ **E** $(7u - 4)$
- 18** $(u - 3)$ **T** $(7 - 4u)$
- 25** $(u - 2)$ **S** $(u - 5)$

Set 4

- a. $81x^4 - y^2$
- b. $3x^2 - 23xy + 40y^2$
- c. $81x^2 + 18xy + y^2$
- d. $9x^2 + 21xy - 8y^2$
- e. $9x^2 + 38xy + 8y^2$

Set 4 Answers

- 7** $(9x + y)$ **W** $(9x + 2y)$
- 21** $(x + 2y)$ **T** $(3x - 8y)$
- 24** $(3x - y)$ **N** $(9x + y)$
- 11** $(9x^2 + y)$ **D** $(3x + 4y)$
- 19** $(x + 4y)$ **S** $(x + y)$
- 22** $(x - 5y)$ **E** $(9x^2 - y)$
- 13** $(3x - 2y)$ **R** $(3x + 8y)$

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
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