



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 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 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 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)

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| 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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