

# Where Did the Tree Invite All Its Friends on Friday Night?



Write the expression in factored form. Find your answer below the exercise and cross out the letter pair next to it.  
 For each letter pair that you DON'T cross out, write the upper case letter in the box containing the lower case letter.



1.  $n^2 + 11n + 18$

2.  $n^2 - 81$

3.  $n^2 - 3n - 18$

**g • s**  $(n - 2)(n + 9)$

**m • i**  $(n + 2)(n + 9)$

**b • v**  $(n + 3)(n - 6)$

**q • a**  $(n - 9)^2$

**t • d**  $(n + 9)(n - 9)$

4.  $49g^2 - 4$

5.  $49g^2 - 28g + 4$

6.  $7g^2 + 3g - 4$

**j • q**  $(7g - 2)^2$

**m • e**  $(7g + 2)(g - 2)$

**e • f**  $(7g + 2)(7g - 2)$

**c • g**  $(7g - 4)(g + 1)$

**b • t**  $(7g + 2)^2$

7.  $9c^2 - 8c - 1$

8.  $c^2 + 11c + 24$

9.  $81c^2 + 18c + 1$

**n • d**  $(9c + 1)^2$

**j • u**  $(c + 4)(c + 6)$

**t • y**  $(9c - 1)^2$

**s • a**  $(9c + 1)(c - 1)$

**h • t**  $(c + 3)(c + 8)$

10.  $a^2 + 2ab - 15b^2$

11.  $5a^2 - 2ab - 16b^2$

12.  $25a^2 + 40ab + 16b^2$

**l • v**  $(a - 3b)(a + 5b)$

**p • l**  $(5a + 4b)^2$

**e • i**  $(a - b)(a + 15b)$

**u • s**  $(5a + 8b)(a - 2b)$

**n • r**  $(5a + 4b)(a - 4b)$

13.  $10t^2 - 13t - 3$

14.  $10t^2 - 43t + 12$

15.  $100t^2 - 9$

**c • o**  $(2t + 3)(5t - 1)$

**f • e**  $(t - 4)(10t - 3)$

**i • s**  $(2t - 3)(5t + 1)$

**s • t**  $(t - 2)(10t - 6)$

**k • n**  $(10t + 3)(10t - 3)$

16.  $2w^2 + 11w - 30$

17.  $4w^2 - 225$

18.  $4w^2 - 60w + 225$

**l • b**  $(2w - 3)(w + 10)$

**r • n**  $(2w + 15)(2w - 15)$

**f • t**  $(2w + 15)^2$

**p • h**  $(2w + 15)(w - 2)$

**a • s**  $(2w - 15)^2$

19.  $1 - 9e^4$

20.  $3e^2 + 19e + 20$

21.  $3e^2 + 4e - 20$

**p • p**  $(3e + 5)(e - 4)$

**r • s**  $(3e + 4)(e + 5)$

**i • l**  $(3e + 10)(e + 2)$

**k • b**  $(3e + 10)(e - 2)$

**d • h**  $(1 + 3e^2)(1 - 3e^2)$

22.  $x^2 + 24xy + 144y^2$

23.  $12x^2 - 11xy - y^2$

24.  $x^2 - 144y^2$

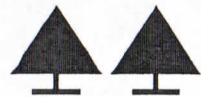
**o • s**  $(12x + y)(x - y)$

**r • r**  $(x - 12y)^2$

**a • i**  $(x + 12y)(x - 12y)$

**h • o**  $(x + 12y)^2$

**k • m**  $(2x - y)(6x + y)$



a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u
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