

What Happened to the Guy Who Lost the Pie-Eating Contest?



Write the expression in factored form. Find your answer below 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. $n^2 + 7n + 12$

2. $n^2 - 9n + 14$

3. $n^2 + 4n - 12$

h • E $(n - 2)(n + 7)$

s • O $(n + 3)(n + 4)$

b • T $(n - 2)(n + 6)$

n • I $(n - 2)(n - 6)$

q • V $(n - 2)(n - 7)$

4. $w^2 + 13w - 30$

5. $w^2 - w - 30$

6. $w^2 + 19w + 18$

e • F $(w + 5)(w - 6)$

j • R $(w + 1)(w + 18)$

s • E $(w - 3)(w + 10)$

c • U $(w - 2)(w + 15)$

b • H $(w + 3)(w + 6)$

7. $p^2 + 5p - 14$

8. $p^2 - 21p + 20$

9. $p^2 - 8p - 20$

t • N $(p + 2)(p - 10)$

e • C $(p - 2)(p + 10)$

p • L $(p - 2)(p + 7)$

k • O $(p - 1)(p - 20)$

q • E $(p - 2)(p - 7)$

10. $x^2 + 7xy + 10y^2$

11. $x^2 + 4xy - 32y^2$

12. $x^2 - 11xy + 10y^2$

j • I $(x - 2y)(x + 5y)$

g • S $(x - 4y)(x + 8y)$

t • D $(x - 2y)(x + 16y)$

f • H $(x - y)(x - 10y)$

o • T $(x + 2y)(x + 5y)$

13. $u^2 + 3u - 70$

14. $u^2 - 33u - 70$

15. $u^2 + 14u + 13$

m • R $(u + 2)(u - 35)$

r • Y $(u - 7)(u + 10)$

p • K $(u - 1)(u + 13)$

f • L $(u + 1)(u + 13)$

c • E $(u + 7)(u - 10)$

16. $c^2 + 16c + 48$

17. $c^2 + 2c - 48$

18. $c^2 - 19c + 48$

r • V $(c - 3)(c - 16)$

g • M $(c - 3)(c + 16)$

o • E $(c - 6)(c + 8)$

a • T $(c + 4)(c + 12)$

k • N $(c + 6)(c - 8)$

19. $m^2 + 25m + 100$

20. $m^2 - 15m - 100$

21. $m^2 + 15m - 100$

u • E $(m + 5)(m - 20)$

m • S $(m - 5)(m - 20)$

l • T $(m + 5)(m + 20)$

d • R $(m - 5)(m + 20)$

f • A $(m + 10)(m - 10)$

22. $a^2 + 4ab - 21b^2$

23. $a^2 + 17ab + 72b^2$

24. $a^2 - 18ab - 40b^2$

r • N $(a - 4b)(a + 10b)$

a • T $(a - 3b)(a + 7b)$

o • C $(a - 3b)(a + 20b)$

i • S $(a + 2b)(a - 20b)$

l • I $(a + 8b)(a + 9b)$

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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