

# Why Didn't Klutz Do Any Homework on Saturday?



Either multiply or factor, as directed, and find your answer in the adjacent answer column. Write the letter of that exercise in the box that contains the number of the answer.

**Multiply:**

- (1)  $(a + 5)(a - 5)$   
 (D)  $(2 + 3a)(2 - 3a)$   
 (E)  $(7a - 1)(7a + 1)$   
 (N)  $(a^2 - 6)(a^2 + 6)$   
 (A)  $(4a + b)(4a - b)$   
 (O)  $(2a^2 - 5b)(2a^2 + 5b)$   
 (4)  $16a^2 - b^2$   
 (13)  $49a^2 - 1$   
 (6)  $a^2 - 25$   
 (17)  $4a^4 - 25b^2$   
 (15)  $4 - 9a^2$   
 (12)  $4a^4 - 36$   
 (24)  $a^4 - 36$

**Factor:**

- (S)  $x^2 - y^2$   
 (I)  $4x^2 - 49y^2$   
 (W)  $81x^2 - 100y^2$   
 (E)  $36x^2 - 121y^2$   
 (O)  $9x^2 - 64y^2$   
 (N)  $x^4 - 400$   
 (3)  $(9x + 10y)(9x - 10y)$   
 (5)  $(x + y)(x - y)$   
 (7)  $(x^2 + 20)(x^2 - 20)$   
 (11)  $(6x + 11y)(6x - 11y)$   
 (16)  $(3x + 7y)(3x - 7y)$   
 (22)  $(2x + 7y)(2x - 7y)$   
 (23)  $(3x + 8y)(3x - 8y)$

**Factor:**

- (E)  $n^2 - 49$   
 (A)  $n^2 - 1$   
 (N)  $81 - n^2$   
 (H)  $4n^2 - 9$   
 (I)  $49n^2 - 16$   
 (E)  $144 - 25n^2$   
 (1)  $(2n + 3)(2n - 3)$   
 (10)  $(12 + 5n)(12 - 5n)$   
 (8)  $(n + 1)(n - 1)$   
 (5)  $(7n + 3)(7n - 3)$   
 (2)  $(n + 7)(n - 7)$   
 (18)  $(9 + n)(9 - n)$   
 (20)  $(7n + 4)(7n - 4)$

**Factor:**

- (T)  $a^6 - b^4$   
 (C)  $25a^8 - 9b^4$   
 (W)  $a^2b^2 - 36$   
 (D)  $16 - a^4b^6$   
 (K)  $a^2b^4 - c^8$   
 (N)  $4a^{16} - 225$   
 (19)  $(4 + a^2b^3)(4 - a^2b^3)$   
 (14)  $(2a^8 + 15)(2a^8 - 15)$   
 (21)  $(a^3 + b^2)(a^3 - b^2)$   
 (12)  $(ab^2 + c^4)(ab^2 - c^4)$   
 (9)  $(ab + 6)(ab - 6)$   
 (16)  $(5a^4 + 3b^2)(5a^4 - 3b^2)$   
 (10)  $(4 + ab^4)(4 - ab^4)$

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|