

Factoring quadratics — Both numbers positive

Name: _____

Date: _____

Factor each one. Write the two numbers that go in the brackets.

1 $x^2 + 16x + 28 = (x + \underline{\quad}) (x + \underline{\quad})$

2 $x^2 + 27x + 140 = (x + \underline{\quad}) (x + \underline{\quad})$

3 $x^2 + 44x + 484 = (x + \underline{\quad}) (x + \underline{\quad})$

4 $x^2 + 13x + 36 = (x + \underline{\quad}) (x + \underline{\quad})$

5 $x^2 + 20x + 96 = (x + \underline{\quad}) (x + \underline{\quad})$

6 $x^2 + 41x + 408 = (x + \underline{\quad}) (x + \underline{\quad})$

7 $x^2 + 32x + 256 = (x + \underline{\quad}) (x + \underline{\quad})$

8 $x^2 + 37x + 330 = (x + \underline{\quad}) (x + \underline{\quad})$



Factoring quadratics · Both numbers positive — Answer key

1. $x^2 + 16x + 28 = (x + 14)(x + 2)$ (14 and 2)

2. $x^2 + 27x + 140 = (x + 7)(x + 20)$ (7 and 20)

3. $x^2 + 44x + 484 = (x + 22)(x + 22)$ (22 and 22)

4. $x^2 + 13x + 36 = (x + 9)(x + 4)$ (9 and 4)

5. $x^2 + 20x + 96 = (x + 12)(x + 8)$ (12 and 8)

6. $x^2 + 41x + 408 = (x + 17)(x + 24)$ (17 and 24)

7. $x^2 + 32x + 256 = (x + 16)(x + 16)$ (16 and 16)

8. $x^2 + 37x + 330 = (x + 22)(x + 15)$ (22 and 15)