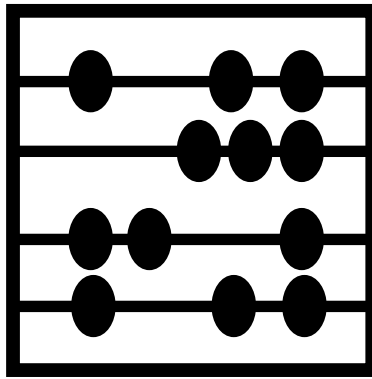


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# FOIL



Algebra 1

Practice Worksheet

*Practice you can't find anywhere else*

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Use the method of FOIL to multiply the binomials.

Type 1:  $(Ax + a)(Bx + b)$

1.  $(x + 1)(x + 3)$

2.  $(x + 4)(x + 6)$

3.  $(x + 2)(x + 5)$

4.  $(x + 8)(x + 5)$

5.  $(x + 6)(x + 9)$

6.  $(x + 9)(x + 8)$

...

7.  $(4x + 1)(x + 3)$

8.  $(x + 3)(3x + 4)$

9.  $(x + 9)(6x + 3)$

10.  $(9x + 4)(x + 8)$

...

11.  $(2u + 5)(5u + 3)$

12.  $(9p + 2)(3p + 6)$

13.  $(5g + 5)(6g + 4)$

14.  $(12k + 4)(7k + 10)$

...

15.  $(-2v + 7)(-2v + 9)$

16.  $(-4j + 7)(-8j + 8)$

17.  $(-10d + 8)(-7d + 5)$

18.  $(-11g + 13)(-11g + 6)$



...

19.  $(4n + 14)(-3n + 2)$

20.  $(-5z + 1)(3z + 9)$

21.  $(-2v + 3)(6v + 6)$

22.  $(-4s + 14)(5s + 3)$

23.  $(13q + 15)(-4q + 14)$

24.  $(-11m + 14)(15m + 6)$

Type 2:  $(Ax - a)(Bx - b)$ 

25.  $(x - 6)(x - 1)$

26.  $(x - 3)(x - 5)$

27.  $(x - 5)(x - 4)$

28.  $(x - 9)(x - 7)$

29.  $(x - 6)(x - 8)$

30.  $(x - 8)(x - 9)$

...

31.  $(3x - 5)(x - 3)$

32.  $(4x - 5)(x - 9)$

33.  $(x - 9)(6x - 7)$

34.  $(x - 5)(12x - 9)$

...

35.  $(2d - 2)(2d - 3)$

36.  $(4m - 2)(9m - 8)$



37.  $(8h - 4)(7h - 3)$

38.  $(10j - 9)(14j - 3)$

...

39.  $(-3d - 3)(-4d - 4)$

40.  $(-6w - 4)(-7w - 2)$

41.  $(-9v - 3)(-7v - 9)$

42.  $(-14a - 12)(-11a - 7)$

...

43.  $(-5z - 2)(2z - 3)$

44.  $(3u - 8)(-5u - 7)$

45.  $(8g - 4)(-3g - 6)$

46.  $(-9p - 8)(2p - 9)$

47.  $(-15q - 9)(14q - 3)$

48.  $(12c - 14)(-15c - 12)$

Type 3:  $(Ax + a)(Bx - b)$  and  $(Ax - a)(Bx + b)$

49.  $(x + 2)(x - 4)$

50.  $(x + 6)(x - 5)$

51.  $(x - 8)(x + 4)$

52.  $(x + 8)(x - 9)$

53.  $(x - 7)(x + 4)$

54.  $(x - 8)(x + 7)$



...

55.  $(2x + 4)(x - 5)$

56.  $(x + 6)(4x - 5)$

57.  $(x + 2)(3x - 9)$

58.  $(12x - 4)(x + 11)$

...

59.  $(3f + 5)(8f - 2)$

60.  $(6z + 9)(9z - 6)$

61.  $(7n - 4)(8n + 7)$

62.  $(13n + 6)(6n - 12)$

...

63.  $(-2w + 4)(-4w - 2)$

64.  $(-4q - 9)(-3q + 3)$

65.  $(-7r + 5)(-3r - 4)$

66.  $(-15j - 5)(-9j + 10)$

...

67.  $(6r - 1)(-2r + 4)$

68.  $(5n + 4)(-7n - 5)$

69.  $(-8s + 6)(3s - 9)$

70.  $(-2s - 15)(8s + 3)$

71.  $(9d + 15)(-9d - 14)$

72.  $(-11u + 10)(14u - 4)$

Type 1:  $(Ax + a)(Bx + b)$ 

1.  $x^2 + 4x + 3$

2.  $x^2 + 10x + 24$

3.  $x^2 + 7x + 10$

4.  $x^2 + 13x + 40$

5.  $x^2 + 15x + 54$

6.  $x^2 + 17x + 72$

7.  $4x^2 + 13x + 3$

8.  $3x^2 + 13x + 12$

9.  $6x^2 + 57x + 27$

10.  $9x^2 + 76x + 32$

11.  $10u^2 + 31u + 15$

12.  $27p^2 + 60p + 12$

13.  $30g^2 + 50g + 20$

14.  $84k^2 + 148k + 40$

15.  $4v^2 - 32v + 63$

16.  $32j^2 - 88j + 56$

17.  $70d^2 - 106d + 40$

18.  $121g^2 - 209g + 78$

19.  $-12n^2 - 34n + 28$

20.  $-15z^2 - 42z + 9$



21.  $-12v^2 + 6v + 18$

22.  $-20s^2 + 58s + 42$

23.  $-52q^2 + 122q + 210$

24.  $-165m^2 + 144m + 84$

Type 2:  $(Ax - a)(Bx - b)$

25.  $x^2 - 7x + 6$

26.  $x^2 - 8x + 15$

27.  $x^2 - 9x + 20$

28.  $x^2 - 16x + 63$

29.  $x^2 - 14x + 48$

30.  $x^2 - 17x + 72$

31.  $3x^2 - 14x + 15$

32.  $4x^2 - 41x + 45$

33.  $6x^2 - 61x + 63$

34.  $12x^2 - 69x + 45$

35.  $4d^2 - 10d + 6$

36.  $36m^2 - 50m + 16$

37.  $56h^2 - 52h + 12$

38.  $140j^2 - 156j + 27$

39.  $12d^2 + 24d + 12$

40.  $42w^2 + 40w + 8$





41.  $63v^2 + 102v + 27$

42.  $154a^2 + 230a + 84$

43.  $-10z^2 + 11z + 6$

44.  $-15u^2 + 19u + 56$

45.  $-24g^2 - 36g + 24$

46.  $-18p^2 + 65p + 72$

47.  $-210q^2 - 81q + 27$

48.  $-180c^2 + 66c + 168$

Type 3:  $(Ax + a)(Bx - b)$  and  $(Ax - a)(Bx + b)$

49.  $x^2 - 2x - 8$

50.  $x^2 + x - 30$

51.  $x^2 - 4x - 32$

52.  $x^2 - x - 72$

53.  $x^2 - 3x - 28$

54.  $x^2 - x - 56$

55.  $2x^2 - 6x - 20$

56.  $4x^2 + 19x - 30$

57.  $3x^2 - 3x - 18$

58.  $12x^2 + 128x - 44$

59.  $24f^2 + 34f - 10$

60.  $54z^2 + 45z - 54$



61.  $56n^2 + 17n - 28$

62.  $78n^2 - 120n - 72$

63.  $8w^2 - 12w - 8$

64.  $12q^2 + 15q - 27$

65.  $21r^2 + 13r - 20$

66.  $135j^2 - 105j - 50$

67.  $-12r^2 + 26r - 4$

68.  $-35n^2 - 53n - 20$

69.  $-24s^2 + 90s - 54$

70.  $-16s^2 - 126s - 45$

71.  $-81d^2 - 261d - 210$

72.  $-154u^2 + 184u - 40$