

Expanding binomials [Side A]

1. Circle the first terms:

a. $(x+2)(3x-4)$

b. $(8+r)(r+3)$

2. Circle the outer terms:

a. $(a-4)(a+3)$

b. $(u+5)(u-2)$

3. Circle the inner terms:

a. $(b+1)(b-9)$

b. $(g+t)(g-t)$

4. Circle the last terms:

a. $(p+4)(p-9)$

b. $(7+y)(4+y)$

5. Expand using the FOIL method:

F + O + I + L

a. $(x+5)(x-1)$

b. $(h+3)(h-2)$

c. $(g+3)(6+g)$

d. $(x-2)(x+2)$

e. $(e+1)(e+9)$

f. $(y+5)(3-y)$

6. Expand and simplify:

a. $(a+2)(a+3)$

b. $(b+3)(b-1)$

c. $(1+c)(1-c)$

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

Combining like terms [Side B]

1. Expand and simplify:

a. $(a+2)(a+3)$

b. $(b+3)(b-1)$

c. $(1+c)(1-c)$

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

2. Expand and simplify:

a. $(3m+4)(m+2)$

b. $(v-1)(5v+4)$

c. $(c+3)(2c+4)$

d. $(2k-4)(k-6)$

3. Expand first, then simplify by collecting like terms:

a. $(m+2)(m+7) - 5m$

b. $(g-3)(g-5) + 10g$

c. $(s-4)(s+2) + s^2$

d. $(w-2)(3w+1) + 7$

4. Expand first, then simplify by collecting like terms:

a. $(j+3)(j-2) + 2(j+1)$

b. $(b+5)(b-1) - (b-3)$

c. $(a+2)(3-b) + 2(ab-1)$

d. $(r-3)(r-7) + r(r-1)$

<p>Answers [Side A]</p> <p>1. a. x and $3x$ b. 8 and r 2. a. a and 3 b. u and -2 3. a. 1 and b b. t and g 4. a. 4 and -9 b. y and y 5. a. $x^2 - x + 5x - 5$ b. $h^2 - 2h + 3h - 6$ c. $6g + g^2 + 18 + 3g$ d. $x^2 + 2x - 2x - 4$ e. $e^2 + 9e + e + 9$ f. $3y - y^2 + 15 - 5y$ 6. a. $a^2 + 5a + 6$ b. $b^2 + 2b - 3$ c. $1 - c^2$ d. $d^2 + d - 12$</p> <p>[Side B]</p> <p>1. a. $a^2 + 5a + 6$ b. $b^2 + 2b - 3$ c. $1 - c^2$ d. $d^2 + d - 12$ 2. a. $3m^2 + 10m + 8$ b. $5v^2 - v - 4$ c. $2c^2 + 10c + 12$ d. $2k^2 - 16k + 24$ 3. a. $m^2 + 4m + 14$ b. $g^2 + 2g - 15$ c. $2s^2 - 2s - 8$ d. $3w^2 - 5w + 5$ 4. a. $j^2 + 3j - 4$ b. $b^2 + 3b - 2$ c. $ab + 3a - 2b + 4$ d. $2r^2 - 11r + 21$</p>	<p>Answers [Side A]</p> <p>1. a. x and $3x$ b. 8 and r 2. a. a and 3 b. u and -2 3. a. 1 and b b. t and g 4. a. 4 and -9 b. y and y 5. a. $x^2 - x + 5x - 5$ b. $h^2 - 2h + 3h - 6$ c. $6g + g^2 + 18 + 3g$ d. $x^2 + 2x - 2x - 4$ e. $e^2 + 9e + e + 9$ f. $3y - y^2 + 15 - 5y$ 6. a. $a^2 + 5a + 6$ b. $b^2 + 2b - 3$ c. $1 - c^2$ d. $d^2 + d - 12$</p> <p>[Side B]</p> <p>1. a. $a^2 + 5a + 6$ b. $b^2 + 2b - 3$ c. $1 - c^2$ d. $d^2 + d - 12$ 2. a. $3m^2 + 10m + 8$ b. $5v^2 - v - 4$ c. $2c^2 + 10c + 12$ d. $2k^2 - 16k + 24$ 3. a. $m^2 + 4m + 14$ b. $g^2 + 2g - 15$ c. $2s^2 - 2s - 8$ d. $3w^2 - 5w + 5$ 4. a. $j^2 + 3j - 4$ b. $b^2 + 3b - 2$ c. $ab + 3a - 2b + 4$ d. $2r^2 - 11r + 21$</p>
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