

WarmUp



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

2. $(5a^3b^5c^{-3})(10a^{-1}b^4)(2a^2b^{-1}c^2)$

3. $-3m^5n^{-4}(9m^2-6n^{-5}+2)$

4. $(2x-1)(3x+2)$

You have 10 minutes.

5. $(3x-2y)(x+4y)$



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

$$= x^2 - 2x + 4x - 8$$
$$= x^2 + 2x - 8$$



$$2. (5a^3b^5c^{-3})(10a^{-1}b^4)(2a^2b^{-1}c^2)$$

$$= 100a^4b^8c^{-1}$$

$$\checkmark \frac{100a^4b^8}{c}$$



3.

$$-3m^5n^{-4}(\underline{9m^2} - \underline{6n^{-5}} + \underline{2})$$

$$= -27m^7n^{-4} + 18m^5n^{-9} - 6m^5n^{-4}$$



$$\begin{aligned} & (2x-1)(3x+2) \\ &= 6x^2 + 4x - 3x - 2 \\ &= 6x^2 + \underline{1x} - 2 \end{aligned}$$



5.

$$(3x-2y)(x+4y)$$

$$= 3x^2 + 12xy - 2xy - 8y^2$$

$$= 3x^2 + 10xy - 8y^2$$

Simplify:

$$(2x+3)^2$$



$$(2x+3)(2x+3)$$

$$4x^2 + 6x + 6x + 9$$

$$4x^2 + 12x + 9$$

Try This!!

$$\begin{aligned} & (5x-3)^2 \\ & \underline{(5x-3)} (5x-3) \\ & 25x^2 - 15x - 15x + 9 \\ & = 25x^2 - 30x + 9 \end{aligned}$$

$$(5x-3)^2$$

$$(5x-3)(5x-3)$$

$$25x^2-15x-15x+9$$

$$25x^2-30x+9$$

Simplify:



$$2(x+2)(x-5)$$

$$2[x^2 - \underline{5x} + \underline{2x} - 10]$$

$$2[x^2 - 3x - 10]$$

$$= 2x^2 - 6x - 20$$

Simplify: 

$$-2(3x-1)(2x+2)$$

Try This!!

*Remember,
multiply the
brackets first!*



$$5(2x-1)(3x+4)$$

$$5[6x^2 + 8x - 3x - 4]$$

$$5[6x^2 + 5x - 4]$$
$$= 30x^2 + 25x - 20$$