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Algebra - Downing

Bellwork: What #s can you multiply to get c and add to get b?

- 1) $b = 14$ $c = 24$ Answer: 2 and 12 \rightarrow $\begin{array}{r} 1 \ 24 \\ 2 \ 12 \\ \hline 3 \ 8 \\ 4 \ 6 \end{array}$
- 2) $b = 9$ $c = 18$ Answer: 6 and 3 \rightarrow $\begin{array}{r} 1 \ 18 \\ 2 \ 9 \\ \hline 3 \ 6 \end{array}$
- 3) $b = -26$ $c = 25$ Answer: -1 and -25 \rightarrow $\begin{array}{r} 1 \ 25 \\ -1 \ -25 \\ \hline -3 \ 5 \end{array}$
- 4) $b = -7$ $c = 12$ Answer: -3 and -4 \rightarrow $\begin{array}{r} 1 \ 12 \\ 2 \ 6 \\ \hline -3 \ -4 \end{array}$
- 5) $b = 2$ $c = -15$ Answer: 3 and -5 \rightarrow $\begin{array}{r} 1 \ -15 \\ 3 \ -5 \\ \hline -3 \ 4 \end{array}$
- 6) $b = -8$ $c = -20$ Answer: 2 and -10 \rightarrow $\begin{array}{r} 1 \ -20 \\ 2 \ -10 \\ \hline 4 \ 5 \end{array}$

Notebook Quiz

7.2 Multiply Polynomials

Ex) $6x(2x-3y)$
 $\boxed{12x^2 - 18xy}$

Ex) $\frac{1}{2}x^2y(6xy + 8x^2y^3)$
 $\boxed{3x^3y^2 + 4x^4y^4}$

Ex) $3a^2b(5a^3 + b)$
 $\boxed{15a^5b + 3a^2b^2}$

Ex) $(2x-3)(x+5)$
 $2x^2 + 10x - 3x - 15$
 $2x^2 + 7x - 15$
 Quadratic Trinomial
 LC=2

First
Outer
Inner
Last

Ex) $(x-5)(2x-1)$
 $2x^2 - x - 10x + 5$
 $2x^2 - 11x + 5$
 Quadratic Trin

Ex) $(x+5)(x^2-3x-2)$
 $x^3 - 3x^2 - 2x + 5x^2 - 15x - 10$
 $x^3 + 2x^2 - 17x - 10$
 Cubic Polynomial LC=1

Ex) Write an expression for perimeter

$x+1$ $\begin{array}{c} 3x-2 \\ \square \\ 3x-2 \end{array}$ $x+1$
 $x+1 + 3x-2 + x+1 + 3x-2$
 $P = 8x - 2$

Write expression of Area of the rectangle.
 $A = l \cdot w$ or $b \cdot h$

$A = (3x-2)(x+1)$
 $3x^2 + 3x - 2x - 2$
 $A = 3x^2 + x - 2$

OR
 $2(x+1) + 2(3x-2)$
 $2x+2 + 6x-4$
 $P = 8x - 2$

HW - Online

p. 369 # 7-10, 26, 28, 31, 32
 38-41