Unit 4 Lesson 8: Expanding and Factoring

1 Number Talk: Parentheses (Warm up)

Student Task Statement

Find the value of each expression mentally.

 $2 + 3 \cdot 4$

(2+3)(4)

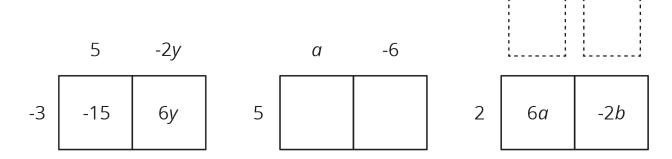
 $2 - 3 \cdot 4$

2 - (3 + 4)

2 Factoring and Expanding with Negative Numbers

Student Task Statement

In each row, write the equivalent expression. If you get stuck, use a diagram to organize your work. The first row is provided as an example. Diagrams are provided for the first three rows.



factored	expanded
-3(5-2y)	-15 + 6y
5(a-6)	
	6a - 2b
-4(2w-5z)	
-(2x-3y)	
	20x - 10y + 15z
k(4-17)	
	10 <i>a</i> – 13 <i>a</i>
-2x(3y-z)	
	ab - bc - 3bd
-x(3y-z+4w)	