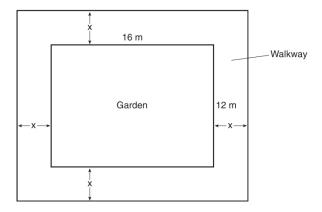
Na	Name:			Date:
U	UNIT 10			LESSON 6
			DO NOW	
Th ler	The area of a rectangle is length of the rectangle as	represented by $x^2 - 5x - 24$. If a binomial.	the width of the rectar	ngle is represented by $x - 8$, express the
		AIM: AR	EA PROBLEN	ИS
1.		a rectangular soccer field that hat Determine algebraically the di		are yards. The soccer field must be 40 yard r field, in yards.
2.				f of the length. The area of the flower bed in a lower bed, to the nearest tenth of a foot.

3. A rectangular garden measuring 12 meters by 16 meters is to have a walkway installed around it with a width of *x* meters, as shown in the diagram below. Together, the walkway and the garden have an area of 396 square meters.



Write an equation that can be used to find x, the width of the walkway. Describe how your equation models the situation. Determine and state the width of the walkway, in meters.