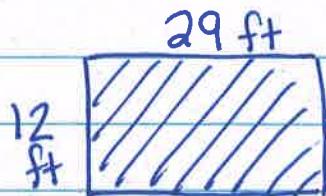


## Application Problem

Aneisha's puppy will have 348 ft<sup>2</sup> play space



$$\begin{aligned} \text{Area} &= \text{length} \times \text{width} \\ &= 29 \times 12 \end{aligned}$$

$$\begin{array}{r} 29 \times 12 \\ 30 - 1 \end{array}$$

$$\begin{aligned} &\text{29 twelves} \\ &30 \text{ twelves} - 1 \text{ twelve} \\ &(30 \times 12) - (1 \times 12) \\ &360 - 12 \\ &348 \end{aligned}$$

$$\begin{array}{r} 29 \times 12 \\ (20 + 9) \times 12 \end{array}$$

$$\begin{aligned} &\text{20 twelves} + 9 \text{ twelves} \\ &(20 \times 12) + (9 \times 12) \\ &240 + 108 \\ &348 \end{aligned}$$

## M2L5-6: Multiplying

$$23 \times 31$$

31 twenty-threes

$$36 + 1$$

$$(30 \times 23) + (1 \times 23)$$

$$690 + 23$$

	23
1	23
+	
30	690

$$\begin{array}{r} \cdot 23. \\ + 690. \\ \hline 713 \end{array}$$

$$\begin{array}{r} 23 \\ \times 31 \\ \hline \cdot 23 \\ + 690 \\ \hline 713 \end{array}$$

$$814 \times 39$$

$$\begin{array}{r} 800 + 10 + 4 \\ \hline 9 \quad | \quad 7200 \quad 90 \quad 36 \\ + \quad | \quad 24000 \quad 300 \quad 120 \\ \hline = 7326 \\ = 24,420 \end{array}$$

$$\begin{array}{r} 814 \\ \times 39 \\ \hline \cdot 7326 \\ + 24420 \\ \hline 31746 \end{array}$$

$$\begin{array}{r} 7200 \quad 24000 \quad 24420 \\ 90 \quad 300 \quad + 7326 \\ + 36 \quad + 120 \quad 31,746 \\ \hline 7326 \quad 24,420 \end{array}$$

$$624 \times 82$$

$$624 \times 82$$

				+1 +3
600 + 20 + 4				
2	1200	40	8	= 1248
+				
80	48000	1600	320	= 49920

$$\begin{array}{r} 624 \\ \times 82 \\ \hline 1248 \\ + 49920 \\ \hline 51,168 \end{array}$$

$$\begin{array}{r} 1200 & 48000 & ,1248 \\ 40 & 1600 & + 49920 \\ + 8 & + 320 & \boxed{51,168} \\ \hline 1248 & 49920 & \end{array}$$