## 2.3 Translating Between Tables & Expressions

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Write an expression for the missing value in the table.

Spike's Age	Rusty's Age	Rusty's age is Spike's age plus 4
2	6	2 + 4 = 6
3	7	3 + 4 = 7
4	8	4 + 4 = 8
а	a + 4	a + 4

When Spike's age is a, Rusty's age is a + 4.

Sep 23-10:45 AM Feb 24-8:39 AM

## Write an expression for the missing value in the table.

Reilly's Age	Ashley's Age	
9	11	9+2
10	12	9+2 10+2 11+2 12+2
11	13	11t2
12	14	12+2
n	N+2	' '

Write an expression for the missing value in the table.

Ty's Age	Rich's Age	
1	7	1.7
2	14	2.7
3	21	3.7
а	7(a) " 7a	ai
	<b>'</b>	

Feb 24-8:44 AM Feb 24-8:40 AM

## Write an expression for the missing value in the table.

Eggs	Dozens	
12	1	19÷18
24	2	24:16
36	3	360-1
48	4	48÷16
е	e-12 e	
	) la	_

Write an expression for the sequence in the table.

Position 1 2 3 4 n

Value 7 10 13 16 7 1

Look for a relationship between the positions and the values of the terms in the sequence. Use guess and check.

Guess 3n + 4

 $\label{eq:check-by-substituting 2.} Check by substituting 2.$ 

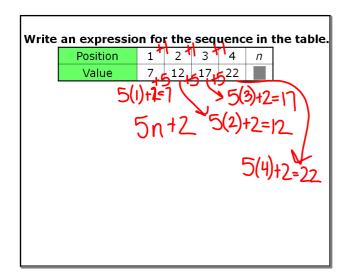
7 • 2 does not equal 10. 3 • 2 + 4 = 10.

The expression 3n + 4 works for the entire sequence.

 $3 \bullet 1 + 4 = 7, 3 \bullet 2 + 4 = 10, 3 \bullet 3 + 4 = 13, 3 \bullet 4 + 4 = 16$ 

The expression for the sequence is 3n + 4.

Feb 24-8:45 AM Feb 24-8:41 AM



A triangle has a base of 6 inches. The table shows the area of the triangle for different heights. Write an expression that can be used to find the area of the

triangle when its height is <i>h</i> inches.			
Base (in.)	Height (in.)	Area (in²)	6h ÷2
6	1	3	UIL · Z
6	2 🕉	6	
6	3 · <b>3</b>	019	
6	h	3n h	3
6h 2	=3L	3(h)	

Feb 24-8:41 AM Feb 24-8:41 AM

A triangle has a base of 4 inches. The table shows the area of the triangle for different heights. Write an expression that can be used to find the area of the triangle when its height is h inches.

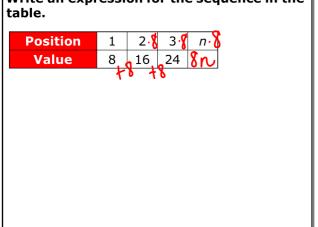
Base (in.)	Height (in.)	Area (in²)	
4	3	6	
4	4	8	
4	5	10	
4	h	20	
	h-2 2	2·h	

Write an expression for the missing value in the table.

Scott's Age	Ray's Age	
11	15	11+4 12+4 13+4
12	16	12+4
13	17	13+4
Х		X+4

Feb 24-8:42 AM Feb 24-8:42 AM

Write an expression for the sequence in the table.



A rectangle has a width of 7 inches. The table shows the area of the rectangle for different lengths. Write an expression that can be used to find the area of the rectangle when its length is / inches.

Width (in.)	Length (in.)	Area (in²)	
7	4	28	
7	5	35	
7	6 • 7	_ 42	
7	l•7	7271	
	e.7 7.2		

Feb 24-8:43 AM Feb 24-8:43 AM