

2.3 Translating Between Tables & Expressions

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Sep 23-10:45 AM

Write an expression for the missing value in the table.

Spike's Age	Rusty's Age
2	6
3	7
4	8
a	$a + 4$

Rusty's age is Spike's age plus 4

$2 + 4 = 6$
 $3 + 4 = 7$
 $4 + 4 = 8$
 $a + 4$

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

Feb 24-8:39 AM

Write an expression for the missing value in the table.

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

$9 + 2 = 11$
 $10 + 2 = 12$
 $11 + 2 = 13$
 $12 + 2 = 14$

Feb 24-8:44 AM

Write an expression for the missing value in the table.

Ty's Age	Rich's Age
1	7
2	14
3	21
a	$7(a) = 7a$

$1 \cdot 7 = 7$
 $2 \cdot 7 = 14$
 $3 \cdot 7 = 21$
 $a \cdot 7 = 7a$

Feb 24-8:40 AM

Write an expression for the missing value in the table.

Eggs	Dozens
12	1
24	2
36	3
48	4
e	$e \div 12 = \frac{e}{12}$

$12 \div 12 = 1$
 $24 \div 12 = 2$
 $36 \div 12 = 3$
 $48 \div 12 = 4$

Feb 24-8:45 AM

Write an expression for the sequence in the table.

Position	1	2	3	4	n
Value	7	10	13	16	$3n + 4$

$1 \cdot 3 + 4 = 7$
 $2 \cdot 3 + 4 = 10$
 $3 \cdot 3 + 4 = 13$
 $4 \cdot 3 + 4 = 16$
 $n \cdot 3 + 4 = 3n + 4$

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

Guess $7n$ Guess $3n + 4$

Check by substituting 2. Check by substituting 2.

$7 \cdot 2$ does not equal 10. $3 \cdot 2 + 4 = 10$.

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

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

The expression for the sequence is $3n + 4$.

Feb 24-8:41 AM

Write an expression for the sequence in the table.

Position	1	2	3	4	n
Value	7	12	17	22	

Handwritten work:
 $5(1)+2=7$
 $5(2)+2=12$
 $5(3)+2=17$
 $5(4)+2=22$
 $5n+2$

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 h inches.

Base (in.)	Height (in.)	Area (in ²)
6	1	3
6	2	6
6	3	9
6	h	

Handwritten work:
 $6h \div 2$
 $\frac{6h}{2} = 3h$
 $3h$

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 (in ²)
4	3	6
4	4	8
4	5	10
4	h	

Handwritten work:
 $3 \cdot 2$
 $4 \cdot 2$
 $5 \cdot 2$
 $2h$
 $h \cdot 2$
 $2 \cdot h$

Feb 24-8:42 AM

Write an expression for the missing value in the table.

Scott's Age	Ray's Age
11	15
12	16
13	17
x	

Handwritten work:
 $11+4$
 $12+4$
 $13+4$
 $x+4$

Feb 24-8:42 AM

Write an expression for the sequence in the table.

Position	1	2	3	n
Value	8	16	24	

Handwritten work:
 8
 16
 24
 $8n$

Feb 24-8:43 AM

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 l inches.

Width (in.)	Length (in.)	Area (in ²)
7	4	28
7	5	35
7	6	42
7	l	

Handwritten work:
 $7 \cdot 4$
 $7 \cdot 5$
 $7 \cdot 6$
 $7 \cdot l$
 $7l$
 $7(l)$

Feb 24-8:43 AM