

2.3 Translating Between Tables & Expressions

p. 62 3/1/18

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	a · 7

$$1 \times 7 = 7$$

$$2 \times 7 = 14$$

$$3 \times 7 = 21$$

$$7 \cdot a$$

$$7a$$

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 ÷ 12

$$12 \div 12 = 1$$

$$24 \div 12 = 2$$

$$36 \div 12 = 3$$

$$48 \div 12 = 4$$

$$\frac{e}{12}$$

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

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 · 2 does not equal 10. 3 · 2 + 4 = 10.

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

3 · 1 + 4 = 7, 3 · 2 + 4 = 10, 3 · 3 + 4 = 13, 3 · 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	

$1 \times 5 + 2 = 7$ $n \cdot 5 + 2$
 $2 \times 5 + 2 = 12$ $5n + 2$
 $3 \times 5 + 2 = 17$
 $4 \times 5 + 2 = 22$

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	

$A = \frac{1}{2} b \cdot h$ $\frac{6h}{2}$

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	

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	$x + 4$

$11 + 4 = 15$
 $12 + 4 = 16$
 $13 + 4 = 17$

Feb 24-8:42 AM

Write an expression for the sequence in the table.

Position	1	2	3	n
Value	8	16	24	

1×8
 2×8
 3×8 $8n$

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	

$7 \cdot l$
 $7l$

Feb 24-8:43 AM