

**LESSON**  
**2-3****Practice B****Translating Between Tables and Expressions**

Write an expression for the missing value in each table.

1.

Bicycles	Wheels
1	2
2	4
3	6
$b$	

2.

Ryan's Age	Mia's Age
14	7
16	9
18	11
$r$	

3.

Minutes	Hours
60	1
120	2
180	3
$m$	

4.

Bags	Potatoes
3	21
4	28
5	35
$b$	

Write an expression for the sequence in each table.

5.

<b>Position</b>	1	2	3	4	5	$n$
<b>Value of Term</b>	3	4	5	6	7	

6.

<b>Position</b>	1	2	3	4	5	$n$
<b>Value of Term</b>	5	9	13	17	21	

7. A rectangle has a width of 6 inches. The table shows the area of the rectangle for different widths. 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. <sup>2</sup> )
6	8	48
6	10	60
6	12	72
6	$l$	

**LESSON**  
**2-3**

# Practice C

## Translating Between Tables and Expressions

Write an expression for the missing value in each table.

1.

Game	Cards
1	52
2	104
3	156
$g$	

2.

Paper Clips	Boxes
250	5
500	10
750	15
$c$	

Write an expression for the sequence in each table.

3.

Position	1	2	3	4	5	$n$
Value of Term	8	13	18	23	28	

4.

Position	1	2	3	4	5	$n$
Value of Term	0	1	2	3	4	

5. What is the relationship between the number of bags and the number of coins?

Bags	Coins
3	18
5	30
7	42
$b$	?

\_\_\_\_\_

\_\_\_\_\_

6. Look at the table below.

Position	1	2	3	4	5	$n$
Value of Term	1	3	5	7	9	?

What is the relationship between the positions and the values of the terms in the sequence?

\_\_\_\_\_

\_\_\_\_\_

**LESSON**  
**2-3**

**Problem Solving (Use a Calculator on this page ☺)**

*Translating Between Tables and Expressions*

Use the table to write an expression for the missing value.  
Then use your expression to answer the questions.

1. How many cars are produced on average each year?  
\_\_\_\_\_
2. How many cars will be produced in 6 years?  
\_\_\_\_\_
3. After how many years will there be an average production of 3,750 cars?  
\_\_\_\_\_

**Cars Produced By Company X**

Numbers of Years	Average Number of Cars Produced
2	2,500
5	6,250
7	8,750
10	12,500
12	15,000
14	17,500
$n$	

**Circle the letter of the correct answer.**

Company Y produces twice as many cars as Company X.

4. How many cars does Company Y produce on average in 8 years?
  - A 1,250
  - B 10,000
  - C 11,250
  - D 20,000
5. How many more cars on average does Company Y produce in 4 years than Company X?
  - F 2,500
  - G 5,000
  - H 6,125
  - J 7,500
6. Which company produces an average of 11,250 cars in 9 years?
  - A Company X
  - B Company Y
  - C both companies
  - D neither company
7. How many cars are produced on average by both companies in 10 years?
  - F 3,750
  - G 12,500
  - H 25,000
  - J 37,500