Student: _____ **Instructor:** Pearson School **Assignment:** i23-3 Practice
Date: _____ **Course:** digits
Time: _____ **Book:** digits

1. Complete the table that shows the relationship between x and y.

x	y
1	7
2	8
3	
4	10
...	...
n	

Complete the table.

x	y
1	7
2	8
3	☐
4	10
...	...
n	☐

2. Use the given information to complete the table. Then write an expression for y when x = n.

x	y
0	0
1	11
2	22
3	
4	
5	

Complete the table.

x	y
0	0
1	11
2	22
3	☐
4	☐
5	☐

Write an expression for y when x = n.

☐

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3. Use the given information to write an expression for y when x = n.

x	1	2	3
y	13	$\frac{13}{2}$	$\frac{13}{3}$

When x = n, y is ☐.

4. You and your friends are buying movie tickets. The cost of the tickets is shown in the table. Complete the table to find the cost of n movie tickets.

Ticket Cost	
Number of Tickets	**Cost of Tickets (dollars)**
1	6.25
2	12.50
3	
...	...
n	

Complete the table.

Ticket Cost	
Number of Tickets	**Cost of Tickets (dollars)**
1	6.25
2	12.50
3	☐
...	...
n	☐

5. Complete the table. Use the figures to help you find your answers.

Figure 1 **Figure 2** **Figure 3**

Figure Number	Number of Squares
1	3
2	
3	9
...	...
n	

Complete the table.

Figure Number	Number of Squares
1	3
2	☐
3	9
...	...
n	☐

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6. Complete the table. How many circles will there be in the n^{th} figure?

Figure 1

Figure 2

Figure Number	Number of Circles
1	
2	
3	
4	
5	16

Complete the table.

Figure Number	Number of Circles
1	☐
2	☐
3	☐
4	☐
5	16

In the n^{th} figure, there will be ☐ circles.

7. A diagonal of a polygon is a segment drawn from one corner point of a polygon to another. The first row of the table shows numbers of sides of polygons. The second row shows how many diagonals a polygon has from one of its corner points. For example, a square has one diagonal from any one vertex. How many diagonals are there from one corner point of a polygon with n sides?

Diagonals From a Corner Point of a Polygon				
Number of Sides	4	5	6	7
Number of Diagonals From One Corner Point	1	2	3	4

Choose the correct answer below.

- A. 3n
- B. $n+3$
- C. $n-3$
- D. n

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8. Complete the table.

Click the icon to view the figures.

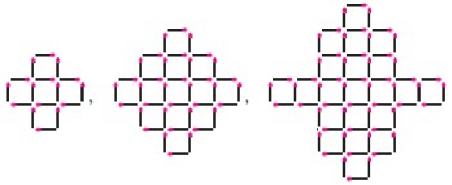
Figure Number	Number of Tiles
1	
2	
3	21
...	...
9	
n	

Complete the table.

Figure Number	Number of Tiles
1	☐
2	☐
3	21
...	...
9	☐
n	☐

More Info

It may be helpful to leave this window open as you work through the steps.



1 2 3

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9. The table shows the number of ounces of juice left in a juice carton at the end of different numbers of days. Based on the data shown in the table, which could be the number of ounces of juice left in the carton at the end of the 6^{th} day?

Juice in a Carton	
Day	**Amount Remaining (in ounces)**
1	53
2	46
3	39
4	32
5	25

Choose the correct answer below.

- ○ A. 11
- ○ B. 7
- ○ C. 6
- ○ D. 18

10. The table shows the price including tax of different numbers of boxes of doughnuts. According to the table, what would be the total dollar cost, including tax, of n boxes of doughnuts?

Doughnut Price List	
Number of Boxes	**Price (including tax)**
1	$4
2	$6
3	$8
4	$10

Choose the correct answer below.

- ○ A. $3n+2$
- ○ B. $2n$
- ○ C. $3n$
- ○ D. $2n+2$

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1. 9
   $n+6$

2. 33
   44
   55
   $n \cdot 11$

3. $\frac{13}{n}$

4. 18.75
   $n \cdot 6.25$

5. 6
   $n \cdot 3$

6. 12
   13
   14
   15
   $11+n$

7. C

8. 5
   13
   69
   $8n-3$

9. D

10. D