1. The letters on the coordinate grid represent the locations of the first four holes on a golf course. Which of the following accurately describes the location of a hole? Mark all that apply.

A. Hole U is 4 units left and 4 units down from hole S.
B. Hole F is 1 unit right and 7 units down from hole U.
C. Hole T is 2 units left and 4 units up from hole S.
D. Hole S is 3 units left and 5 units up from hole F.

2. A builder is buying property to build new houses. The sizes of the lots are \(\frac{1}{6}, \frac{1}{2}, \frac{3}{2}, 2, \frac{1}{6}, 2, \frac{1}{3}, 2, \frac{1}{6}, 2, \frac{1}{2}, \frac{1}{6}, \frac{1}{2}, \frac{1}{3}, \frac{1}{6}, \frac{1}{2}, \frac{3}{2}, \frac{1}{6}\) acre. Organize the information in a line plot.

What is the average size of the lots?

\[ \text{acre} \]

3. For 6 days in a row, Julia measured the depth of the snow in a shaded area of her backyard. The line graph shows her data. Between which two days did the depth of the snow decrease the most?

between Day and Day
4. Portia made a table to figure out how much she earned selling T-shirts.

<table>
<thead>
<tr>
<th>Day</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of T-shirts sold</strong></td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td><strong>Amount earned ($)</strong></td>
<td>20</td>
<td>40</td>
<td>60</td>
<td>80</td>
<td>?</td>
</tr>
</tbody>
</table>

For 4a–4b, use the table to choose the correct values to describe how one sequence is related to the other.

4a. The unknown number in Day 5 is 90.

4b. The rule that describes how the number of T-shirts sold relates to the amount earned is **add 15**.

5. Jawan made a table to figure out how much he earns at his job.

<table>
<thead>
<tr>
<th>Job Earnings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Week</strong></td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td><strong>Hours Worked</strong></td>
</tr>
<tr>
<td><strong>Amount Earned ($)</strong></td>
</tr>
</tbody>
</table>

**Part A**

Write a rule that relates the amount Jawan earns to the number of hours worked. Explain how you can check your rule.

**Part B**

How much does he earn from his job in Week 6? $______
6. **THINK SMARTER+** Look for a pattern.

What is the rule? __________

How many squares will there be in Figure 5? __________ squares

7. Lindsey made a map of her town. Match each location below with the correct ordered pair that marks it on the coordinate grid. Not every ordered pair will be used.

- Clock Tower •
  - (4, 4)
  - (4, 1)
- Art Museum •
  - (1, 3)
  - (5, 3)
- East Park •
  - (4, 5)
  - (3, 1)
- Movie Theater •
  - (2, 4)
  - (1, 4)
- School •
  - (4, 2)

8. Lucy’s house is located at the point shown on the coordinate grid. Ainsley’s house is located 2 units right and 3 units down from Lucy’s house. Plot a point on the coordinate grid to represent the location of Ainsley’s house.

What ordered pair represents the location of Lucy’s house? __________

What ordered pair represents the location of Ainsley’s house? __________
9. Each week, Maria saves some of her allowance. The line graph shows the amount of Maria's savings for the first 5 weeks of the year.

For 9a–9b, select True or False for each statement.

9a. Maria's savings increased from $30 to $55 over the 5-week period.  
   ○ True  ○ False

9b. The greatest increase in Maria's savings occurred from Week 1 to Week 2.  
   ○ True  ○ False

10. The line plot shows the weights of bags of beans. What is the average weight of the bags? Show your work.

11. The table shows how much a puppy weighs from 1 month old to 5 months old.

<table>
<thead>
<tr>
<th>Puppy's Weight</th>
<th>Age (in months)</th>
<th>Weight (in pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>34</td>
</tr>
</tbody>
</table>

What ordered pairs would you plot to show the puppy's weight on a coordinate grid? How do you think the ordered pairs would be different if the puppy's weight was measured every week instead of every month? Explain your reasoning.
12. Randy is training for a race. She makes a table that shows how long it takes her to run different distances.

<table>
<thead>
<tr>
<th>Running Time and Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance (in miles)</td>
</tr>
<tr>
<td>Time (in minutes)</td>
</tr>
</tbody>
</table>

**Part A**

Write the number pairs as ordered pairs. Then write the rule to describe how the number pairs are related.

**Part B**

Graph the ordered pairs on the coordinate plane.

13. A scientist made a line graph that shows how a bear’s average heart rate changes over time.

**Change in Average Heart Rate of Bears**

For 13a–13c, select True or False for each statement.

13a. The bear’s average heart rate is at its highest in July.  ○ True  ○ False

13b. The bear’s average heart rate increases by 10 beats per minute from July to August.  ○ True  ○ False

13c. The bear’s average heart rate is at its lowest in January.  ○ True  ○ False
14. The table shows the total number of tickets sold for the school play each day for 5 days.

<table>
<thead>
<tr>
<th>Day</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tickets Sold</td>
<td>20</td>
<td>30</td>
<td>45</td>
<td>75</td>
<td>90</td>
</tr>
</tbody>
</table>

Graph the ordered pairs from the tiles on the coordinate grid.

15. The graph shows the relationship between the amount of milk and water used in a recipe. Determine a rule that relates the amount of milk to the amount of water by writing the correct term or value from the tiles in each blank.

- Subtract
- Add
- Multiply
- Divide

1 | 2 | 4 | \(\frac{1}{2}\) | \(\frac{1}{4}\)

Rule: \[ \text{the amount of milk by } \frac{1}{2} \text{.} \]

16. Steven is buying a new mountain bike on layaway for $272. If he pays $34 each week, how many weeks will it take Steven to pay for the bike? How can making a table help you solve the problem?