1. Deshun went to visit Zakia and he brought 9 video games, which is 10% of his collection. Using the number line above, determine how many video games Deshun has all together.  

CC.6.NS.1

2. Compute: \( \frac{1}{2} ÷ \frac{3}{5} = \)

CC.6.NS.1

3. Compute: \( 1,476 ÷ 18 = \)

CC.6.NS.2

4. Refer to the October calendar to the right. Jay’s trash is picked up on days that are multiples of 5 and the paper is delivered on days that are multiples of three. How many dates in October is the trash picked up on the same day the paper is delivered?  

CC.6.NS.4

5. A floor is 14.7 feet by 13 feet. What is the area of the room?  

(hint: \( \text{Area} = \text{length} \times \text{width} \))  

CC.6.NS.3

6. There are 1,775 pennies in Jay’s jar. If 25 pennies are needed to fill a bag, how many whole bags can Jay fill?  

CC.6.NS.2

7. The spaceship travels around the sun at a speed of 12.6 miles per second. How far will it travel in 45 seconds?  

CC.6.NS.3

8. Use the chart to the right to answer questions 8 and 9.

<table>
<thead>
<tr>
<th>Racer</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ally</td>
<td>53.96</td>
</tr>
<tr>
<td>Bob</td>
<td>54.15</td>
</tr>
<tr>
<td>Jeff</td>
<td>54.3</td>
</tr>
<tr>
<td>John</td>
<td>54.33</td>
</tr>
<tr>
<td>Kate</td>
<td>54.41</td>
</tr>
</tbody>
</table>

8. What was the difference between John and Bob in the chart?  

CC.6.NS.3

9. How much time did it take Ally, Jeff & Kate all together?  

CC.6.NS.3

10. What is the Greatest Common Factor (GCF) of 12 and 42?  

CC.6.NS.4

11. What is the Least Common Multiple (LCM) of 5 and 20?  

CC.6.NS.4

12. For which number will a list of its factors include 7?  

A. 24  B. 26  C. 28  D. 30  

CC.6.NS.4
13. There are 14.25 carpet tiles lined up on the floor and each one is 2.5 feet long. How long is the line of carpet tiles?  

14. You are taking a bus trip from LaGrange to New Orleans. You will have to drive 491.2 miles. The bus gets 8 miles per gallon. How many gallons of gas will the bus use driving from LaGrange to New Orleans?  

15. The height of dachshunds is usually \( \frac{1}{3} \) their length. If Mollie is 20 inches long, how tall is she?  

16. Which number is both a multiple of 6 and a factor of 60?  
   A. 10   B. 12   C. 15   D. 20  

17. Which number sentence is represents what is in the model?  
   \[ \begin{array}{c} \square \quad \square \quad \square \quad \div \quad \square \quad = \quad ? \end{array} \]  
   A. \( 12 \div 2 = 6 \)   B. \( 10 \div 1 = 10 \)   C. \( \frac{2}{2} \div \frac{1}{2} = 5 \)   D. \( \frac{12}{4} \div \frac{2}{4} = 6 \)  

18. What is the LCM of 6 and 8?  

19. Which of the following choices is equal to 22 + 36?  
   A. 2(11 + 16)   B. 2(11 + 18)   C. 3(7 + 12)   D. 3(22 + 12)  

20. Is \( 2(9 + 12) = 42 \)? Why or why not?  
   A. Yes, because \( 2 \cdot 9 = 18 \); and \( 18 + 18 = 42 \)  
   B. Yes, because \( 2 \cdot 9 = 18 \); and \( 2 \cdot 12 = 24 \); and \( 18 + 24 = 42 \)  
   C. No, because \( 2 \cdot 9 = 18 \); and \( 18 + 12 = 30 \)  
   D. No, because \( 2 \cdot 9 = 18 \); and \( 9 \cdot 12 = 108 \); and \( 18 + 108 = 126 \)