2. Which of the following numbers is not composite?

[A] 14  
[B] 5  
[C] 21  
[D] 91

3. Which number is not a factor of 50?

[A] 10  
[B] 25  
[C] 4  
[D] 5

4. List all the factors of 36.

[A] 1, 36  
[B] 1, 6, 12, 60  
[C] 1, 2, 3, 4, 6, 9, 12, 18, 36  
[D] 1, 6, 12, 18, 24, 36

5. Write the prime factorization of 195.

[A] 3 x 5 x 13 x 13  
[B] 2 x 3 x 5 x 13  
[C] 1 x 3 x 5 x 13  
[D] 3 x 5 x 13

6. What is the greatest common factor of 80 and 32?

[A] 160  
[B] 16  
[C] 8  
[D] 320

7. Which is not a multiple of 4?

[A] 20  
[B] 40  
[C] 8  
[D] 14
8. Find the least common multiple of 32 and 80.


9. $3\frac{3}{4} + 1\frac{1}{4}$ (Reduce your answer.)

[A] 4  [B] $4\frac{1}{4}$  [C] 5  [D] $4\frac{1}{2}$

10. $2\frac{1}{4} + \frac{7}{9}$ (Reduce your answer.)

[A] $2\frac{8}{36}$  [B] $3\frac{1}{36}$  [C] $2\frac{2}{9}$  [D] $2\frac{8}{13}$

11. $\frac{5}{9} - \frac{1}{3}$ (Reduce your answer.)

[A] $\frac{6}{27}$  [B] $\frac{2}{9}$  [C] $\frac{4}{6}$  [D] $\frac{4}{27}$

12. $6\frac{3}{4} - 3\frac{1}{4}$ (Reduce your answer.)

[A] $3\frac{1}{4}$  [B] $\frac{1}{2}$  [C] 4  [D] $3\frac{1}{2}$
13. What is the mean of the following data?

14, 6, 2, 10


14. Find the median of 55, 72, 43, 90, and 31.


15. Name the mode or modes in the following sample.
14, 2, 33, 6, 21, 13, 14, 5, 6, 21


16. Find the range of the set of numbers.
11, 17, 23, 21, 28


17. According to the circle graph, which is the favorite color?


![Circle Graph]

Revised 7/10
18. If you spin the spinner above, what is the probability of the pointer landing on G?

[A] $\frac{1}{2}$  
[B] $1$  
[C] $\frac{1}{8}$  
[D] $\frac{1}{4}$

19. How long is the line segment below the ruler?

[A] 35 mm  
[B] 5 mm  
[C] 30 mm  
[D] 3.5 mm

20. A _____ would be about six inches long.

[A] hand  
[B] table  
[C] moving van  
[D] shoe lace

21. 8 feet = ___ inches

[A] 24  
[B] 80  
[C] 96  
[D] 288

22. Convert 6 tons to pounds.

[A] 6,000 lbs.  
[B] 120,000 lbs.  
[C] 12,000 lbs.  
[D] 1,200 lbs.
23. Which of the following is a right angle?

[A] \[ \quad \]

[B] \[ \quad \]

[C] \[ \quad \]

[D] \[ \quad \]

24. Estimate the measure of the angle:

[A] 90°

[B] 70°

[C] 30°

[D] 120°

25. Which best represents a pair of similar figures?

[A] \[ \quad \] \[ \quad \]

[B] \[ \quad \] \[ \quad \]

[C] \[ \quad \] \[ \quad \]

[D] \[ \quad \] \[ \quad \]
26. Find the perimeter of the rectangle.

\[
\begin{array}{c}
5 \text{ yd} \\
3 \text{ yd} \\
\end{array}
\]


27. What is the area of this square?

\[
\begin{array}{c}
8 \text{ ft} \\
8 \text{ ft} \\
\end{array}
\]

[A] 32 ft\(^2\)  [B] 64 ft\(^2\)  [C] 128 ft\(^2\)  [D] 16 ft\(^2\)

The graph below shows the number of valentines received by students.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Michael</td>
<td></td>
</tr>
<tr>
<td>Paul</td>
<td></td>
</tr>
<tr>
<td>Sarah</td>
<td></td>
</tr>
<tr>
<td>Michelle</td>
<td></td>
</tr>
<tr>
<td>Lauren</td>
<td></td>
</tr>
</tbody>
</table>

Key: ♥️ = 10 valentines

28. What is the difference between the number of valentines Paul and Michael received?

29. Using the graph above, find the difference between the amounts of rainfall in the years 2001 and 2003.


30. Which digit is in the hundredths place in 23,894.167?


31. Estimate by rounding to the greatest place: 68.4 x 3.1

[A] 21   [B] 2,100   [C] 210   [D] 21,000
32. \( 37.16 \times 21 \)

[A] 74.32  
[B] 111.48  
[C] 780.36  
[D] 445.92

33. \( \frac{7}{10} \)

[A] 14.0  
[B] 0.104  
[C] 0.14  
[D] 1.4

34. Write \( 6 \frac{3}{10} \) as an improper fraction.

[A] \( \frac{18}{10} \)  
[B] \( \frac{63}{10} \)  
[C] \( \frac{57}{10} \)  
[D] \( \frac{60}{10} \)
35. Chef Emeril is going to make Salsa. Here is the recipe he will use.

<table>
<thead>
<tr>
<th>Salsa</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$\frac{1}{4}$ cups of diced tomatoes</td>
</tr>
<tr>
<td></td>
<td>2 cup of onions</td>
</tr>
<tr>
<td></td>
<td>$\frac{1}{2}$ cup of red peppers</td>
</tr>
<tr>
<td></td>
<td>$\frac{3}{4}$ cup of jalapeno peppers</td>
</tr>
<tr>
<td></td>
<td>$\frac{7}{8}$ chili peppers</td>
</tr>
</tbody>
</table>

A. What type of peppers will Emeril use the greatest amount of?

B. How many cups of peppers are used altogether?

C. Emeril has a measuring cup that holds $\frac{1}{4}$ cup.

How many times does he fill that cup to add the $1\frac{1}{4}$ cups of tomatoes to the salsa?

Show your work clearly or explain your answer.