Placement Test

Circle the letter of the correct answer.

1. Which answer is the same as $8 + 6 + 9$?
   A 8 tens and 6 ones
   B 6 tens and 9 ones
   C 2 tens and 3 ones
   D 3 tens and 8 ones

2. Look at the squares. How many groups of tens and ones are there?
   A 6 tens and 6 ones
   B 2 tens and 4 ones
   C 3 tens and 6 ones
   D 5 tens and 1 ones

3. Circle the number with the higher tens value.
   A 534
   B 187
   C 274
   D 96

4. What number goes in the box to make the problem correct?
   $\square + 14 = 19$
   A 6
   B 8
   C 7
   D 5

5. Look at the number line. If the rule continues, where will the arrow land on the next hop?
   A 7
   B 9
   C 10
   D 13

6. Which answer is an equation?
   A $9 = 3 = 6$
   B $2 + 4 + 7$
   C $7 - 2 + 7$
   D $8 + 3 = 11$

7. Pat saw 5 fish and 3 turtles in a pond. Then 2 frogs hopped into the pond. How many things in all were in the pond?
   A 10
   B 8
   C 12
   D 7

8. Which equation matches this problem?
   There were 9 birds in a tree. All of them flew away. How many birds were left in the tree?
   A $9 + 1 = 10$
   B $9 - 9 = 0$
   C $4 + 5 = 9$
   D $9 + 0 = 9$

9. What is the perimeter of this shape?
   A 15 cm
   B 5 cm
   C 8 cm
   D 12 cm

10. Look at the graph. How many miles did Mom run?
    A 7
    B 9
    C 6
    D 10
**Placement Test**

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

1. Which answer is the same as 6 tens and 27 ones?
   A 33  
   B 87  
   C 62  
   D 82

2. How many dimes are equal to 40 pennies?
   A 10  
   B 400  
   C 14  
   D 4

3. Which answer is correct?
   A 5 = 13  
   B 4 < 9  
   C 8 < 3  
   D 2 > 12

4. \(9 + 7 = \)  
   A 9 - 7  
   B 9 + (7 + 9)  
   C 7 + (6 + 3)  
   D 7 - (9 + 3)

5. In which problem do you have to regroup?
   A 61 - 19  
   B 54 - 42  
   C 38 - 25  
   D 76 - 30

6. Look at the pictograph. How many cars crossed the bridge on Wednesday?
   A 17  
   B 24  
   C 53  
   D 70

7. What is the value of the digit 3 in the number 539?
   A 13  
   B 30  
   C 39  
   D 300

8. What number is missing in this function table?

<table>
<thead>
<tr>
<th>IN</th>
<th>OUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>8</td>
</tr>
<tr>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>7</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>23</td>
<td>28</td>
</tr>
</tbody>
</table>

   A 33  
   B 14  
   C 29  
   D 12

9. Which multiplication fact is represented by this array?

   \[ \begin{array}{c}
   \text{Array} \\
   \boxed{5 \times 4 = 20} \\
   \boxed{6 \times 4 = 24} \\
   \boxed{8 \times 3 = 24} \\
   \boxed{6 \times 5 = 30}
   \end{array} \]

   A 5 \times 4 = 20  
   B 6 \times 4 = 24  
   C 8 \times 3 = 24  
   D 6 \times 5 = 30

10. Which equation is correct?
   A 5 + 9 = 14 - 5  
   B 5 + 5 = 9 + 9  
   C 5 + 9 = 9 + 5  
   D 9 + 5 = 14 - 9
Circle the letter of the correct answer.

1. Look at the number. Increase the value of the hundreds digit by 3. What would the new number be?
   
   24,516
   A 24,519
   B 24,546
   C 27,216
   D 24,816

2. $936 - 478 =
   A 458
   B 542
   C 452
   D 448

3. Which problem will have an answer less than 500?
   A $1162 - 584$
   B $267 + 294$
   C $1,427 - 986$
   D $143 + 406$

4. Which problem is a true statement?
   A $\frac{11}{3} \times \frac{9}{6} > \frac{12}{5}$
   B $\frac{3}{10} < \frac{7}{20}$
   C $\frac{1}{3} = \frac{3}{20}$
   D $\frac{4}{9} = \frac{7}{2}$

5. A theater has 12 sections. Each section has 8 rows and each row has 10 seats. How many seats are there in all?
   A 92 seats
   B 240 seats
   C 960 seats
   D 860 seats

6. $63 \div 9 =
   A 6$
   B 8
   C 4
   D 7

7. Which expression would you use to solve this problem?
   The temperature at four o’clock was 85°. By nine o’clock that night, it was 63°. How much did the temperature drop?
   A $85 + 63$
   B $85 - 63$
   C $85 + 4 - 63$
   D $9 - 4$

8. Look at the graph. In which game did Lee score nine points?
   
   ![](graph.png)
   A 1
   B 2
   C 3
   D 4

9. A driver delivered 214 soccer balls to a store. The next day, the driver brought 27 footballs and 39 basketballs to the same store. If 25 balls can fit on a shelf, how many shelves will be needed for all the balls?
   A 13
   B 15
   C 12
   D 19

10. What is the area of a room that is 8 feet wide and 12 feet long?
    A 96 square feet
    B 20 square feet
    C 128 square feet
    D 82 square feet
**Placement Test Level G**

Circle the letter of the correct answer.

1. Which figure has the smallest surface area?
   A.  
   B.  
   C.  
   D.  

2. $\frac{2}{3} \times \frac{3}{2} = $
   A. $\frac{1}{3}$
   B. $\frac{5}{6}$
   C. $\frac{3}{4}$
   D. $\frac{1}{2}$

3. Which answer is equivalent to $\frac{1}{4}$?
   A. $\frac{1}{8}$
   B. $\frac{4}{12}$
   C. $\frac{2}{3}$
   D. $\frac{7}{5}$

4. What is the median of the following set of numbers?
   11, 2, 5, 6, 7, 14, 4
   A. 3
   B. 5
   C. 6
   D. 7

5. A board is 8 feet long. There are 12 inches in a foot. A worker cut the board into 6 pieces. How long was each piece of wood?
   A. 16 inches
   B. 14 inches
   C. 4 inches
   D. 48 inches

6. $6 \times (2 + 5) = $
   A. 42
   B. 13
   C. 17
   D. 67

7. Which answer is equivalent to $\frac{1}{4}$?
   A. $\frac{1}{8}$
   B. $\frac{5}{12}$
   C. $\frac{1}{4}$
   D. $\frac{1}{2}$

8. Which answer completes the equation?
   $33 - 8 = _____ + 9$
   A. 25
   B. 17
   C. 16
   D. 34

9. There are three times more cows in a field than sheep. If there are 40 animals all together, how many of them are sheep?
   A. 12
   B. 15
   C. 4
   D. 20

10. Which answer is equal to $2^7$?
    A. $2 \times 3$
    B. $3^2$
    C. $2 \times 2 \times 2$
    D. $1 \times 2 \times 3$
Circle the letter of the correct answer.

1. In which answer are the numbers ordered from least to greatest?
   A  -2, -3, -5, 9, 13
   B  -12, -4, 2, 7, 14
   C  2, -2, 3, -3, 5, -5
   D  18, 12, 0, -6, 1

2. The table below shows the pets owned by students in a class. What is the ratio of fish to cats?

<table>
<thead>
<tr>
<th>PET</th>
<th>NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish</td>
<td>4</td>
</tr>
<tr>
<td>Birds</td>
<td>2</td>
</tr>
<tr>
<td>Dogs</td>
<td>9</td>
</tr>
<tr>
<td>Cats</td>
<td>7</td>
</tr>
</tbody>
</table>

   A  11
   B  3
   C  4
   D  7

3. What is the volume of this figure?

   7 in.
   6 in.
   3 in.

   A  126 in$^3$
   B  16 in$^3$
   C  367 in$^3$
   D  63 in$^3$

4. $358 \div 14962$
   A  44
   B  42 R 9
   C  41 R 284
   D  14 R 962

5. If you divided a circle into 3 equal angles, what would each angle measure?
   A  300 degrees
   B  120 degrees
   C  90 degrees
   D  63 degrees

6. What is 250% of 40?
   A  100
   B  254
   C  425
   D  10

7. $\frac{9}{2} \div \frac{1}{8}$
   A  2
   B  $\frac{3}{13}$
   C  $\frac{1}{2}$
   D  $\frac{32}{5}$

8. What is the measure of the missing interior angle in this triangle?

   A  30 degrees
   B  60 degrees
   C  40 degrees
   D  120 degrees

9. What are the coordinates of point c?

   A  (2, -2)
   B  (-4, 5)
   C  (1, -3)
   D  (-4, -4)

10. A box contains three balls of different colors. The colors are red, white, and blue. What is the probability of choosing the same color ball two times in a row?
    A  $\frac{2}{3}$
    B  $\frac{1}{3}$
    C  $\frac{1}{2}$
    D  $\frac{1}{27}$
Circle the letter of the correct answer.

1. What is the least common multiple of these numbers?
   3, 4, and 9
   A. 12
   B. 36
   C. 18
   D. 40

2. Which numbers are correctly ordered from least to greatest?
   A. \(-\frac{5}{3}, -1, 0.05, 2\frac{1}{3}, 3\frac{1}{2}\)
   B. \(-0.1, -\frac{5}{2}, -\frac{3}{4}, -0.7\)
   C. \(-0.5, -\frac{1}{2}, \frac{1}{4}, 0.07\)
   D. \(-\frac{3}{4}, -0.4, -\frac{3}{5}, 4\)

3. \(63 \div (-19) = \)
   A. 44
   B. 56
   C. 82
   D. 73

4. \(\frac{1}{3} - \frac{3}{5} = \)
   A. \(\frac{3}{15}\)
   B. \(\frac{4}{5}\)
   C. 18
   D. \(\frac{1}{15}\)

5. The regular price of a soccer ball is $28. It is on sale for 25% off. What is the sale price of the soccer ball?
   A. $21
   B. $3
   C. $7
   D. $25

6. \(6.75 \div 0.25 = \)
   A. 6.5
   B. 4.5
   C. 13
   D. 27

7. Which of these proportions is not equal to the others?
   A. \(1:3\)
   B. \(4:5\)
   C. \(15:45\)
   D. \(6:18\)

8. What is the area of this circle? Use \(\frac{22}{7}\) for pi.
   A. 1760 in\(^2\)
   B. 2464 in\(^2\)
   C. 616 in\(^2\)
   D. 88 in\(^2\)

9. What is the measure of angle ABC?
   A. 100°
   B. 360°
   C. 80°
   D. 270°

10. What is the volume of this triangular prism?
    A. 160 units\(^3\)
    B. 72 units\(^3\)
    C. 17 units\(^3\)
    D. 80 units\(^3\)