ITEM SAMPLERS ARE NOT SECURE TEST MATERIALS. THIS ITEM SAMPLER TEST BOOK MAY BE COPIED OR DUPLICATED.
Directions for Mathematics Test

• For each question, choose the answer you think is best.

• You must answer each question in your test book.

• You can use scratch paper or write in your test book to help you answer the questions.

• When you finish a segment, review your answers. Then raise your hand for a sticker to seal the segment. Once you seal it, you cannot go back.

On this test, do your own best work to show what you know and can do.

• Do not accept help finding answers to test questions.

• Do not give answers to other students.

• Do not tell others what is on the test.

• There may be consequences if you do not follow directions or if you behave dishonestly.
Segment 1

You will be told when to begin this segment.

You **MAY NOT** use a calculator for this segment.
Mathematics Test — Segment 1

1. There are 35 students going on a class trip. The students ride in vans. There are 7 students riding in each van. How many vans are needed to take all the students?

A. 4
B. 5
C. 6
D. 7

2. A truck has 50 boxes of jump ropes. Each box contains 100 jump ropes. How many jump ropes are on the truck?

A. 50
B. 500
C. 5,000
D. 50,000
3. Two numbers are multiplied together.

\[
\begin{array}{c}
724 \\
\times 8 \square \\
\hline \\
62,264 \\
\end{array}
\]

Which digit goes in the box?

A. 0  
B. 1  
C. 4  
D. 6  

4. Divide.

\[
908 \div 4
\]

A. 202  
B. 212  
C. 227  
D. 247  

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Go on to the next page.
5. What is 9.582 rounded to the nearest tenth?
   A. 9.5
   B. 9.58
   C. 9.6
   D. 10

6. Robert has 54 pencils. He has 1 box of pencils and 3 packages of pencils. The box has 24 pencils. Which equation can be used to find \( p \), the number of pencils in each package?
   A. \( p = 54 + 3 \times 24 \)
   B. \( 24 = 54 + 3 \times p \)
   C. \( 54 = 3 + 24 \times p \)
   D. \( 54 = 24 + 3 \times p \)
7. A figure is shown.

Which shows a 90° counterclockwise rotation of the figure?

A.  

B.  

C.  

D.  

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This is the end of Segment 1.
Check your work. Then seal this segment.
Segment 2

You will be told when to begin this segment.

You *MAY* use a calculator for this segment.
8. A fraction model is shown.

Which shows an equivalent fraction?

A.  

B.  

C.  

D.  

9. Which point is shown at \( \frac{2}{3} \)?

\[ \begin{align*}
W & \quad 0 \\
X & \quad 1 \\
Y & \quad 2 \\
Z & \quad 3 \\
\end{align*} \]

A. W  
B. X  
C. Y  
D. Z

10. In the number 200.358, which digit is in the hundredths place?

A. 2  
B. 3  
C. 5  
D. 8
11. Which shape is a rhombus?

A. 

B. 

C. 

D. 

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12. An angle is shown.

Which describes the angle?

A. Acute  
B. Obtuse  
C. Right  
D. Straight
13. The shape of a floor is shown.

What is the area of the floor?

A. 40 sq. ft.
B. 131 sq. ft.
C. 171 sq. ft.
D. 180 sq. ft.
14. A shape is shown.

Which shows a translation of the shape over the line?

A.  
B.  
C.  
D.
15. A student creates a timeline for a history project. Which shows a timeline?

A.  
1981 1965 1942 1908 1892

B.  
1892 1908 1942 1965 1981

C.  
1908 1942 1965 1981 1892

D.  
1892 1908 1942 1965 1981

16. A camping group bought 15 sleeping bags that cost $42 each and a tent that cost $160. What was the total cost of the sleeping bags and the tent?

A.  $217
B.  $630
C.  $790
D.  $2,442
17. Jason has 8 cupcakes.

He eats \( \frac{1}{8} \) of the cupcakes and gives \( \frac{2}{8} \) of the cupcakes to his friends. What fraction of the cupcakes are left?

A. \( \frac{1}{8} \)  
B. \( \frac{3}{8} \)  
C. \( \frac{5}{8} \)  
D. \( \frac{3}{5} \)
18. A decimal number is shown on a grid.

Which number is less than the number shown on the grid?

A. 0.9  
B. 0.48  
C. 0.450  
D. 0.275
19. Which fraction is equivalent to 0.23?

A. \( \frac{1}{23} \)

B. \( \frac{23}{10} \)

C. \( \frac{23}{100} \)

D. \( \frac{2}{3} \)
20. A table is shown.

<table>
<thead>
<tr>
<th>$f$</th>
<th>$g$</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>16</td>
<td>8</td>
</tr>
</tbody>
</table>

What rule was used to make the table?

A. $g = 2f$

B. $g = \frac{f}{2}$

C. $g = f + 2$

D. $g = 2f + 2$
21. An equation is shown.

\[ 12 \, \underline{\quad} \, 5 = 17 + 43 \]

Which symbol makes the equation true?

A. \(+\)
B. \(\,-\)
C. \(\,\times\)
D. \(\,\div\)
22. Which statement is true about an obtuse triangle?

A. It has 2 acute angles.
B. It has 2 obtuse angles.
C. It can be a right triangle.
D. It can be an acute triangle.
23. Which shows a line of symmetry?

A. 

B. 

C. 

D. 

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24. Kira is using 1-inch square tiles to cover a table top. The table top is 24 inches long and 18 inches wide. She lays the tiles into strips of 6.

How many strips of tiles will Kira need to cover the table with no gaps or overlaps?

A. 14  
B. 18  
C. 72  
D. 432
25. Ron draws a trapezoid, then rotates it 90°.

Which statement is true about the 2 trapezoids?

A. They are congruent because all trapezoids are congruent.

B. They are congruent because rotating a trapezoid does not change its size and shape.

C. They are not congruent because rotating the trapezoid changes its side lengths.

D. They are not congruent because rotating the trapezoid changes its angle measures.
This is the end of Segment 2.
Check your work. Then seal this segment.
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