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Directions for Completing the Response Grids

1. Work the problem, and find an answer.

2. Write your answer in the answer boxes at the top of the grid in the Student Test Booklet.
   - Write only one digit or symbol in each answer box.
   - Be sure to write a decimal point or fraction bar in the answer box if it is a part of the answer.

3. Fill in a bubble under each box in which you wrote your answer in the Student Test Booklet.
   - Fill in one and ONLY one bubble for each answer box. Do NOT fill in a bubble under an unused answer box.
   - Fill in each bubble by making a solid mark that completely fills the circle.
   - You MUST fill in the bubbles accurately to receive credit for your answer.
You can record a mixed number in several different ways. You can write it as:

<table>
<thead>
<tr>
<th>a. A whole number and a fraction (5 1/2). Be sure to include a space between the whole number and the fraction.</th>
<th>b. An equivalent fraction (11/2)</th>
<th>c. An equivalent decimal (5.5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Diagram of 5 1/2]</td>
<td>![Diagram of 11/2]</td>
<td>![Diagram of 5.5]</td>
</tr>
</tbody>
</table>
NOTE: The question numbers in this Released Items Paper Test Booklet match the question numbers in the corresponding Item Release Scoring Guide available on the portal and the item numbers in the Item Level Report in the Online Reporting System.

Directions:

1. Read each question carefully. Think about what is being asked. Look carefully at graphs or diagrams because they will help you understand the question. Then, choose or write the answer you think is best.

2. Use only a #2 pencil to answer questions on this test.

3. For questions with bubbled responses, fill in the circle next to your answer choice. If you change your answer, make sure you erase your old answer completely. Do not cross out or make any marks on the other choices.

4. For questions with response boxes, write your answer neatly, clearly and only in the space provided. Answers written outside of the space provided will not be scored.

5. If you do not know the answer to a question, skip it and go on to the next question. If you have time, go back to the questions you skipped and try to answer them before turning in your Student Test Booklet.

6. Check over your work when you are finished.
9. Cooper leaves his house to go to school at 8:15 a.m. It takes 15 minutes to get to school. Cooper then plays on the playground for another 20 minutes before the bell rings.

Draw the hour and minute hands to show the time when the bell rings.
10. Fill in the bubbles before each correct phrase to create a true statement about the fraction $\frac{1}{3}$.

The fraction $\frac{1}{3}$ describes when a whole is divided into

- $A$ 1 part
- $B$ 2 parts
- $C$ 3 parts

is divided into

- $A$ 1 equal part.
- $B$ 2 equal parts.
- $C$ 3 equal parts.
11. Rachel, Liam, and Kiaan are stacking blocks. They want to see who can build the tallest tower of blocks without it falling over. They each record their number of blocks on the graph shown.

![Bar Graph]

**Block Towers**

<table>
<thead>
<tr>
<th>Name</th>
<th>Number of Blocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachel</td>
<td>50</td>
</tr>
<tr>
<td>Liam</td>
<td>40</td>
</tr>
<tr>
<td>Kiaan</td>
<td>80</td>
</tr>
</tbody>
</table>
How many total blocks did Rachel, Liam, and Kiaan use to build their towers?

A 130
B 160
C 170
D 180
12. An equation is given.

\[ 72 \div 9 = \Box \]

In the space provided, enter a related multiplication equation that shows the missing value.
15. Andre wants to plant 72 flowers in a garden.

- The garden should have at least 3 rows of flowers.
- Each row should have the same number of flowers.
- Each row should have at least 3 flowers.

Enter numbers into the table to show two different ways that Andre can plant the flowers.

<table>
<thead>
<tr>
<th></th>
<th>Number of Rows</th>
<th>Number of Flowers in Each Row</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Way</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Second Way</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
22. Which area model represents the expression $(3 \times 6) + (3 \times 5)$?

A

B
23. A pattern is given.

22, 19, 16, ___, 10, 7

What is the missing number in the pattern?
25. Enter a number to complete the equation.

\[
166 + \underline{\hspace{2cm}} = 378
\]
27. Fill in the bubbles before the three shapes that each have an area of 16 square feet.
28. This item has three parts.

**Part A.** Shade to create models for two different fractions that are greater than 1.

<table>
<thead>
<tr>
<th>Key</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Fraction 1" /> = 1</td>
</tr>
</tbody>
</table>

**Fraction 1**

![Fraction 1](image)

**Fraction 2**

![Fraction 2](image)

See the following pages.
28. (continued)

**Part B.** Fill in the bubbles before the words that correctly complete each sentence.

- Fraction 1 has **more** parts of the wholes shaded than Fraction 2.
- The parts in Fraction 1 are **the same size as** the parts in Fraction 2.
- Fraction 1 is **greater than** Fraction 2.
Part C. Which statement correctly compares the two fractions?

A  Fraction 1 > Fraction 2
B  Fraction 1 = Fraction 2
C  Fraction 1 < Fraction 2

How many pens does Jennifer have in all?
30. At lunch, there are 48 third-graders. Every table in the lunchroom has the same number of chairs. Every student has a seat and every table is full.

How many tables are needed? Enter the number in the first response grid.

How many chairs are there at each table? Enter the number in the second response grid.

• There may be more than one correct answer.
Number of tables:

Number of chairs at each table:
31. Which stick has a length of $\frac{1}{2}$ inch?
Go to the next page
33. A girl walks around the perimeter of a park, as shown.
What is the perimeter, in meters (m), of the park?
36. What is 761 rounded to the nearest hundred?
42. Which number line shows point V located at \( \frac{1}{6} \)?

A

B

C

D
45. An expression is shown.

\[ 3 \times 4 \times 10 \]

Fill in the bubbles before the two expressions that are equivalent to this expression.

(A) \( 3 \times 40 \)
(B) \( 30 + 4 \)
(C) \( 12 \times 10 \)
(D) \( 12 \times 40 \)
(E) \( 10 + 12 \)
47. A shape is shown.

Fill in the bubbles before the **two** words that describe this shape.

- A. triangle
- B. hexagon
- C. rectangle
- D. pentagon
- E. quadrilateral
48. A diagram is shown.

Which measure would be found by counting all the unit squares in the rectangle?

A  area
B  length
C  volume
D  perimeter