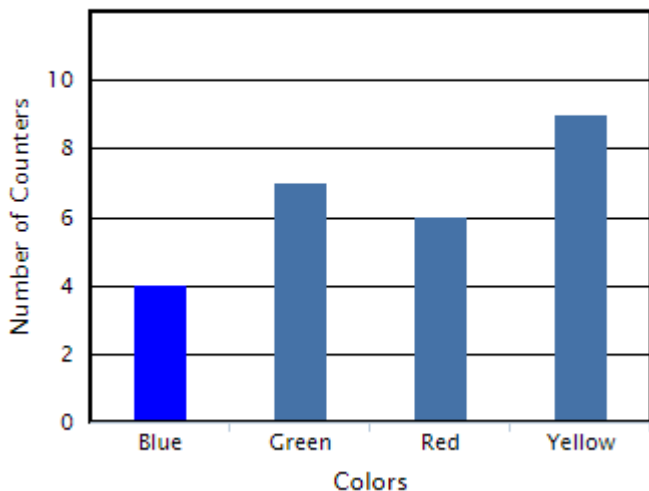


| Item Number | Answer Key | Evidence Statement Key | | | | | | | | | | |
|-------------|--|------------------------|--------------------|------|---|-------|---|-----|---|--------|---|----------|
| 1. | B | 3.G.1 | | | | | | | | | | |
| 2. | C | 3.G.2 | | | | | | | | | | |
| 3. | A, D, F | 3.MD.1-1 | | | | | | | | | | |
| 4. | B | 3.MD.2-1 | | | | | | | | | | |
| 5. | 12 | 3.MD.2-2 | | | | | | | | | | |
| 6. | <div><p style="text-align: center;">Colored Counters</p><table><caption>Data for Colored Counters</caption><thead><tr><th>Color</th><th>Number of Counters</th></tr></thead><tbody><tr><td>Blue</td><td>4</td></tr><tr><td>Green</td><td>7</td></tr><tr><td>Red</td><td>6</td></tr><tr><td>Yellow</td><td>9</td></tr></tbody></table></div> | Color | Number of Counters | Blue | 4 | Green | 7 | Red | 6 | Yellow | 9 | 3.MD.3-1 |
| Color | Number of Counters | | | | | | | | | | | |
| Blue | 4 | | | | | | | | | | | |
| Green | 7 | | | | | | | | | | | |
| Red | 6 | | | | | | | | | | | |
| Yellow | 9 | | | | | | | | | | | |
| 7. | 16 | 3.MD.6 | | | | | | | | | | |
| 8. | C, E | 3.MD.7b-1 | | | | | | | | | | |

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| 9. | <div> <div> <p>Same Area and Different Perimeters</p> </div> <div> <p>Same Perimeter and Different Areas</p> </div> <div> <p>Different Areas and Different Perimeters</p> </div> </div> | 3.MD.8 |
| 10. | B | 3.NBT.2 |
| 11. | $605 + 195 = 800$ | 3.NBT.2 |
| 12. | $8 \times 70 = 560$ $4 \times 40 = 160$ $5 \times 50 = 250$ $3 \times 60 = 180$ | 3.NBT.3 |
| 13. | $4 \times 50 = 200$ | 3.NBT.3 |
| 14. | C | 3.NF.1 |
| 15. | | 3.NF.2 |
| 16. | C | 3.NF.3a-2 |
| 17. | D | 3.NF.3c |
| 18. | B | 3.OA.2 |
| 19. | D | 3.OA.2 |
| 20. | 70 | 3.OA.3-1 |

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| 21. | A, B, D | 3.OA.3-2 |
| 22. | 4 | 3.OA.3-3 |
| 23. | C | 3.OA.3-4 |
| 24. | $\boxed{6} \times \boxed{?} = \boxed{48}$ OR $\boxed{?} \times \boxed{6} = \boxed{48}$ | 3.OA.6 |
| 25. | $5 \times 5 =$ <input type="text" value="25"/> $4 \times 2 =$ <input type="text" value="8"/> $3 \times 3 =$ <input type="text" value="9"/> $1 \times 9 =$ <input type="text" value="9"/> $4 \times 6 =$ <input type="text" value="24"/> | 3.OA.7-1 |
| 26. | B, C, D, F | 3.OA.7-2 |
| 27. | Part A: <div style="text-align: center;">Nearest Hundred</div> Wednesday = <input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="0"/> Thursday = <input type="text" value="3"/> <input type="text" value="0"/> <input type="text" value="0"/> Friday = <input type="text" value="4"/> <input type="text" value="0"/> <input type="text" value="0"/> Part B: C | 3.Int.1 |
| 28. | Length of the pool: 10 yards Perimeter of the pool: 34 yards | 3.Int.3 |
| 29. | Part A: C Part B: 17 | 3.MD.3-3 |
| 30. | Part A: 8 Part B: 42 | 3.OA.8 |
| 31. | See Rubric | 3.C.1-2 |
| 32. | Part A: See Rubric Part B: See Rubric | 3.C.4-1 |

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| 33. | Part A: See Rubric Part B: See Rubric Part C: See Rubric | 3.C.4-7 |
| 34. | Part A: See Rubric Part B: See Rubric | 3.D.1 |

#31 Rubric

| Score | Description |
|-------|---|
| 3 | <p>Student response includes the following 3 elements.</p> <ul style="list-style-type: none"> • Reasoning component = 1 point <ul style="list-style-type: none"> ○ The student describes how to find the number that Martin used to create the pattern. • Reasoning component = 1 point <ul style="list-style-type: none"> ○ The student explains how multiplication can be used to create the pattern. • Reasoning component = 1 point <ul style="list-style-type: none"> ○ The student explains why 55 cannot be in the pattern. <p>Sample Student Response:</p> <p>"Martin is adding 6 to the prior number to form the pattern" or the student may show computation for at least 3 repetitions indicating that the difference between members of the pattern is 6, such as: "$12-6=6$, $18-12=6$, $24-18=6$. He is adding 6 each time" or show that 6 is the common addend for at least 3 repetitions, such as: "$6+6=12$, $12+6=18$, $18+6=24$" or extend the pattern with at least 3 repetitions beyond the numbers provided, such as: "6 12 18 24 30 36 42 48 54 60."</p> <p>"The pattern can be used by multiplying by 6. The first number is equal to 6×1, the second number is equal to 6×2, the third number is equal to 6×3, etc."</p> <p>"55 cannot be included in the pattern because it is not a multiple of 6." OR "55 is an odd number and the pattern is all even numbers."</p> <p>Note:</p> <ul style="list-style-type: none"> • A variety of explanations are valid. If the student makes a computation mistake in the first 2 elements, the point can be awarded if the explanation is sound. |
| 2 | Student response includes 2 of the above elements. |
| 1 | Student response includes 1 of the above elements. |

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| 0 | Student response is incorrect or irrelevant. |
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#32 Rubric Part A

| Score | Description |
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| 2 | <p>Student response includes the following 2 elements.</p> <ul style="list-style-type: none"> • Reasoning component = 1 point <ul style="list-style-type: none"> ◦ The student lists Zora’s correct reasoning. • Reasoning component = 1 point <ul style="list-style-type: none"> ◦ The student lists Zora’s incorrect reasoning. <p>Sample Student Response:</p> <p>“Zora is correct when she broke the 5 into $2 + 3$ and said that 4×5 is the same as $4 \times (3+2)$.”</p> <p>“When Zora found the value of $4 \times (3+2)$, she found her answer by first multiplying 4×3 and then adding 2, which equals 14 and is incorrect.”</p> <p>Notes:</p> <ul style="list-style-type: none"> • A variety of ways of listing responses are possible. As long as the student correctly identifies Zora’s correct and incorrect reasoning, credit should be given. • The student does not need to use the terms <i>properties of operations</i>, <i>distributive property</i>, or <i>parentheses</i> to receive credit. |
| 1 | Student response includes 1 of the above elements. |
| 0 | Student response is incorrect or irrelevant. |

#32 Rubric Part B

| Score | Description |
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| 2 | <p>Student response includes the following 2 elements.</p> <ul style="list-style-type: none"> • Reasoning component = 1 point <ul style="list-style-type: none"> ◦ The student explains how to correct the error. • Computation component = 1 point <ul style="list-style-type: none"> ◦ The student provides the response of 20. <p>Sample Student Response:</p> <p>“Zora should have multiplied 4×3 and then 4×2 and then added</p> |

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| | <p>12 + 8, which equals 20.”</p> <p>Notes:</p> <ul style="list-style-type: none"> • A variety of explanations are possible. As long as the student correctly explains how to solve the problem, credit should be given. • If a computation mistake is made, credit cannot be given for computation but can be given for a valid explanation. • The student does not need to use the terms <i>properties of operations</i>, <i>distributive property</i>, or <i>parentheses</i> to receive credit. |
| 1 | Student response includes 1 of the above elements. |
| 0 | Student response is incorrect or irrelevant. |

| #33 Rubric Part A | |
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| Score | Description |
| 1 | <p>Student response includes the following element.</p> <ul style="list-style-type: none"> • Reasoning component = 1 point <ul style="list-style-type: none"> ○ The student explains the place value error made. <p>Sample Student Response:</p> <p>“Rick is incorrect. There is the same number of hundreds, but 8 tens is more than 7 tens.”</p> <p>Note:</p> <ul style="list-style-type: none"> • A variety of explanations are valid as long as the student indicates a clear understanding of the error made. |
| 0 | Student response is incorrect or irrelevant. |
| #33 Rubric Part B | |
| Score | Description |
| 1 | <p>Student response includes the following element.</p> <ul style="list-style-type: none"> • Reasoning component = 1 point <ul style="list-style-type: none"> ○ The student provides a correct comparison between the number of books read in January and the number of books read in February. |

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| | Sample Student Response: $172 < 180$ or $180 > 172$ |
| 0 | Student response is incorrect or irrelevant. |
| #33 Rubric Part C | |
| Score | Description |
| 2 | <p>Student response includes the following 2 elements.</p> <ul style="list-style-type: none"> • Reasoning component = 1 point <ul style="list-style-type: none"> ◦ The student writes a correct equation to indicate the total number of books read in January and February. • Computation component = 1 point <ul style="list-style-type: none"> ◦ Correct answer, 352. <p>Sample Student Response: $172 + 180 = ?$? is 352" OR $172 + 180 = 352$"</p> <p>Note:</p> <ul style="list-style-type: none"> • A variety of equations are valid. |
| 1 | Student response includes 1 of the above elements. |
| 0 | Student response is incorrect or irrelevant. |

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| #34 Rubric Part A | |
| Score | Description |
| 2 | <p>Student response includes the following 2 elements.</p> <ul style="list-style-type: none"> • Computation component = 1 point <ul style="list-style-type: none"> ◦ Correct answer, 22. • Modeling component = 1 point <ul style="list-style-type: none"> ◦ Valid work or explanation of the answer. <p>Sample Student Response:</p> <p>"A total amount of 22 fluid ounces of water are left in the jar. To find this, I solved:" $3 \times 8 = 24$ $9 \times 2 = 18$ $24 + 18 = 42$ $64 - 42 = 22$</p> <p>Or other valid response</p> |
| 1 | Student response includes 1 of the above elements. |
| 0 | Student response is incorrect or irrelevant. |

#34 Rubric Part B

| Score | Description |
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| 1 | <p>Student response includes the following element.</p> <ul style="list-style-type: none">• Modeling component = 1 point<ul style="list-style-type: none">◦ An equation, with letter representing unknown, that can be used to find the number of 7-ounce cups that can be filled. <p>Sample Student Response:</p> <p>"$42 \div p = 7$"</p> <p>"p is 6"</p> <p>Notes:</p> <ul style="list-style-type: none">• Other valid equations such as $42 \div 7 = p$ or $7 \times p = 42$ will be accepted.• Students do not need to include the answer to the equation, i.e., $p = 6$. <p>Or other valid response</p> |
| 0 | Student response is incorrect or irrelevant. |