TEACHERS: Make a copy and share with families for supplemental resources, if you like. [Answer Key](#f0rac2emgtmg) (when possible) is located on the last page.

**Student Directions**:

Looking for an extra challenge? Want some fun math to do? Check out this Choice Board that you can complete at home. This is not part of your 30-minutes of Teacher-Led Learning, so it’s completely optional! Challenge yourself to think like a mathematician and ask yourself the following questions:

* What do I notice? What do I wonder? What questions could I answer using mathematics?
* How could I explain my thinking to someone in my family?
* Do I notice any patterns?
* How does this task connect to something I have learned previously in math class?

Each of the tasks are organized into tables below. As you complete a task, cross out or star the problem on the board below. **Can you get 3 in-a-row? Try for an “X” or a “+” if you find tasks that you like.**

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| **Math 7 Choice Board- April 27** | | |
| [Lock Puzzle](#3slv8ysx2rt6) | [Match the Graph](#ytxk8rucy91q) | [Fraction Talk](#kix.jre817kp3lsq) |
| [Hippos and Crocodiles](#odx46xhc4dyu) | [Area of Shapes](#7o9bnaqwpte) | [Triangle Sum Puzzle](#x4atyc3rjtsl) |
| [Matilda’s Multiplication](#jy4yxecer710) | [Weighing Pets](#eksofkt6gf7q) | [**Which One Doesn’t Belong?**](#kix.vn2yii7n843q) |

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| **Lock Puzzle**(@MrsCookMSMath) | **Match the Graph**  (openupresources.org - U2EUA#1)  Which graph represents a proportional relationship? Explain your reasoning. |
| **Matilda’s Multiplication**  (@logicandmaths)  Matilda multiplied a 4-digit number by 6, but seven of the digits in the multiplication have blown away and can be seen under it. But beware: a 6 and a 9 can appear identical after they have been blown away.    What was the result of the multiplication? | **Hippos and Crocodiles**  (openupresources.org - 7U2PA#5)  The ratio of the number of hippos to the number of crocodiles at a watering hole is . Draw a double number line diagram that would show the number of crocodiles if there were 20 hippos.  A blank double number line is provided for you here if you want to use it:    BONUS: Can you solve this problem using a different method? |

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| **Area of Shapes**  (openupresources.org -U1PA#4)  Each small square in the graph paper represents 1 square unit. Find the area of each figure. Explain your reasoning. | **Triangle Sum Puzzle**  (@Logicandmaths) |
| **Weighing Pets**  ( <https://brilliant.org/>)  What weight will the fourth scale display? |
| **Fraction Talks**  (http://fractiontalks.com/how-to/)  What fraction of the square is yellow? How do you know? | **Which One Doesn’t Belong?**  (<https://wodb.ca/>)  Which one doesn’t belong? Can you think of a reason why each one doesn’t belong in their own way? |

KEY

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| **Math 7 -April 27 - KEY** | | |
| [Lock Puzzle](#3slv8ysx2rt6)  I think one possible answer is “042” -- might be more and I might be wrong :) | [Match the Graph](#ytxk8rucy91q)  Graph C | [Fraction Talk](#76ltkb6p6oqy)  1/3 |
| [Hippos and Crocodiles](#odx46xhc4dyu) | [Area of Shapes](#7o9bnaqwpte)  Figure A has an area of 7 ½ square units. It can be divided into a 2-unit-by-3-unit rectangle (with an area of 6 square units) and a 1-unit-by-3-unit triangle (with an area of 1 ½ square units). Figure B has area of 10 square units. It can be surrounded by a 4-unit-by-4-unit square with two triangles removed. Those triangles have areas of 4 and 2. The area of Figure B is 10 square units since 16-4-2=10 . | [Triangle Sum Puzzle](#x4atyc3rjtsl)  [Video Solution](https://www.youtube.com/watch?v=YoPkRXCtrnA&feature=youtu.be): |
| [Matilda’s Multiplication](#jy4yxecer710) | [Weighing Pets](#eksofkt6gf7q)  The fourth scale will display 35 (rabbit =5, cat =9, dog=21) | [**Which One Doesn’t Belong?**](#kix.vn2yii7n843q)  Answers vary |