

Dear Parents and Guardians,

Each week we would love for your child to complete one of these puzzles. They need to submit their answers by Friday. It is OK if they are incorrect, the idea is to help students persevere and try new and more challenging puzzles.

Every child that submits an answer will receive a certificate they can show to their teacher next year. We hope this is fun and engaging, and that you have great conversations about how they approached solving the problem.

On Saturday we will post the solutions at www.crr.math.arizona on the Remote Learning Tab.

Week 2 Puzzle



Submit your solution to:

<https://forms.gle/4mdKKW2FBM1otGWD9>

Problem of the Week Scenario: **Birthday Cash Grab**

As your sixteenth birthday approaches you are looking for ways to make money so you can buy a used car. Currently, you earn \$10 a week for doing chores around the house.

Your father realizes that you are trying to save up, and offers you the following deal. You can either be paid the \$10, or you can pull two bills from a brown paper bag. In the bag there are two \$1 bills, two \$5 bills, and a \$10 bill. For example, you might pull out a \$1 bill followed by a \$5 bill, and earn only \$6. Or you might pull out the \$10 bill followed by a \$5 bill and earn \$15.

If you were given this option every week, what would be better for you to do in the long run? Is pulling two bills from the paper bag a great way to make money?

