WEDNESDAY MORNING MATH –
LEVEL 1, PROBLEM 1

Jackson had 3 model cars.

He had a blue one, a red one, and a black one.
He wants to put them on his shelf.

How many different ways can he line them up on his shelf? Show your solutions below.

Blue, red, black
Blue, black, red

Black, red, blue
Black, blue, red

Red, blue, black
Red, black, blue

6 ways in all

WEDNESDAY MORNING MATH –
LEVEL 1, PROBLEM 2

Cassidy is playing a game with her friend Donna. She wants Donna to guess her favorite number. Here are her clues:

- If you subtract 3 from my number, the answer is 1.
- If you subtract 1 from my number, the answer is 3.

What is Cassidy's favorite number? 4

WEDNESDAY MORNING MATH –
LEVEL 1, PROBLEM 3

The corner store is having a sale on doughnuts.

The first one costs 7 cents.

After you buy one doughnut, your following doughnuts are 4 cents each.

Gloria bought 8.

How much did she spend? Show your work below.

7 + 4 + 4 + 4 + 4 + 4 + 4 + 4 = 35 cents

WEDNESDAY MORNING MATH –
LEVEL 2, PROBLEM 1

Tim is building a row of block towers using a pattern.

He started with 1 block in the first tower.
The second tower is made with 4 blocks.
The third tower is made with 7 blocks.

What pattern is he following? Add 3

How many blocks will be in the tenth tower? 28 blocks
Show your work below.

1st = 1
2nd = 4
3rd = 7
4th = 10
5th = 13
6th = 16
7th = 19
8th = 22
9th = 25
10th = 28

WEDNESDAY MORNING MATH – LEVEL 2, PROBLEM 2

Bear, Squirrel, Rabbit, Deer and Owl are seating themselves around a campfire to roast marshmallows. However, they have to be careful about who sits where.

- Bear's favorite snack is rabbit, therefore they cannot sit together.
- Every time Owl hoots, Deer gets nervous so they do not sit next to each other.
- Squirrel's arms are really short, so Bear is next to her to help with the marshmallows.
- Owl is allergic to chestnuts so he cannot be next to Squirrel because she smells like them.

In what order are they sitting around the campfire?

Deer, Rabbit, Owl, Bear, Squirrel, and back to Deer (sitting in a circle)

WEDNESDAY MORNING MATH – LEVEL 2, PROBLEM 3

The afternoon gets hot at Fibonacci Park, so you and your friends agree to ride bumper boats for 5 hours to cool off. The rental agent explains the rental rates:

- Full day (8 hours) = $20
- Half day (4 hours) = $15 plus $3 for each additional hour
- Hourly = $4

Which rental option is the best buy for you? Show your work below.

Half Day = $15 + $3 = $18

WEDNESDAY MORNING MATH – LEVEL 3, PROBLEM 1

Carter has been playing a game that his brother wrote for him. He has one challenge left to reach the treasure. He needs to figure out which of these five-digit codes will unlock the vault:

15342	21540	35402
35123	50034	05142
23105	15320	43501
05124	53424	13402

To help him figure it out, his brother has given the following clues:

1. Each digit is different.
2. The code number is not a multiple of 5.
3. The product of the first two digits is odd.
4. The sum of the first four digits is 12.

Which code should he use? 35402

WEDNESDAY MORNING MATH – LEVEL 3, PROBLEM 2

Wyn wants to play basketball but is supposed to finish his math assignment first. Mrs. Bradshaw offers him a bargain that he can cut his assignment short if he can determine the exact number of balls that are in the ball closet. Mrs. Bradshaw tells him that:

- There are fewer than thirty balls
- If he were to take out two balls at a time, there would be one ball left in the closet
- If he takes out three balls at a time, there would be no balls left in the closet
- If he takes out four balls at a time, there will be three balls left over
- If he takes out five balls at a time, there would be no balls left in the closet

HOW MANY BALLS ARE IN THE CLOSET? 15 balls

WEDNESDAY MORNING MATH – LEVEL 3, PROBLEM 3

In order to get ready for the new school year, Mrs. Bender took her three children shopping.

Edward selected a jacket that cost $48.78. His sister, Stephanie, found a pair of shoes for $63.58 that she really liked. Devin thought that was a lot to spend on one pair of shoes. He selected two pairs of jeans.

Mrs. Bender noticed that the total cost of the items before tax was exactly $155.

How much did one pair of Devin's jeans cost? $21.32

48.78 + 63.58 = 112.36

155.00 – 112.36 = 42.64

42.64/2 = 21.32

WEDNESDAY MORNING MATH – LEVEL 4, PROBLEM 1

Kelly and her dad were in Calgary watching five Canadian teams try to qualify for her favorite Olympic event – the four man bobsled. On each team a driver sits in front, followed by two teammates and the brakeman in the back.

Each entrant in this race wore one of the numbers 1 through 20 on his suit. The drivers wore numbers 1, 2, 3, 4, and 5.

Before the race Kelly studied the teams. Drivers 2, 3, and 4 were riding with brakemen 18, 15, and 20 respectively in three of the sleds. In another sled were 10 and 17, and in the remaining sled were 6 and 12.

Suddenly Kelly announced to her dad, "Wow! If you add up the four numbers on each team, all five sums are the same!"

What was the sum of the numbers for each team? 42

What were the numbers in each sled?

1, 10, 14, 17

2, 9, 13, 18

3, 8, 16, 15

4, 7, 11, 20

5, 6, 19, 22

WEDNESDAY MORNING MATH –
LEVEL 4, PROBLEM 2

While at Henry's House of Numbers, you and a friend see some souvenirs you would like to buy: a Numbers pencil set and a Numbers backpack. You purchase a backpack and 2 sets of pencils for $22.25. Your friend buys 2 backpacks and 1 pencil set for $37.00.

How much does each backpack cost? $17.25

How much does each pencil set cost? $2.50

WEDNESDAY MORNING MATH – LEVEL 4, PROBLEM 3

Seth and his mother share the same birthday. On his 14th birthday, his mother turned 42 and Seth noticed that her age was exactly three times his age.

He realized that when his mother is 60, he will be 32 and she won't even be twice as old as Seth at that point.

When will his mother's age be twice his age?
When Seth is 28, his mother will be 56.

When will her age be five times his age?
When Seth is 7, his mother will be 35.