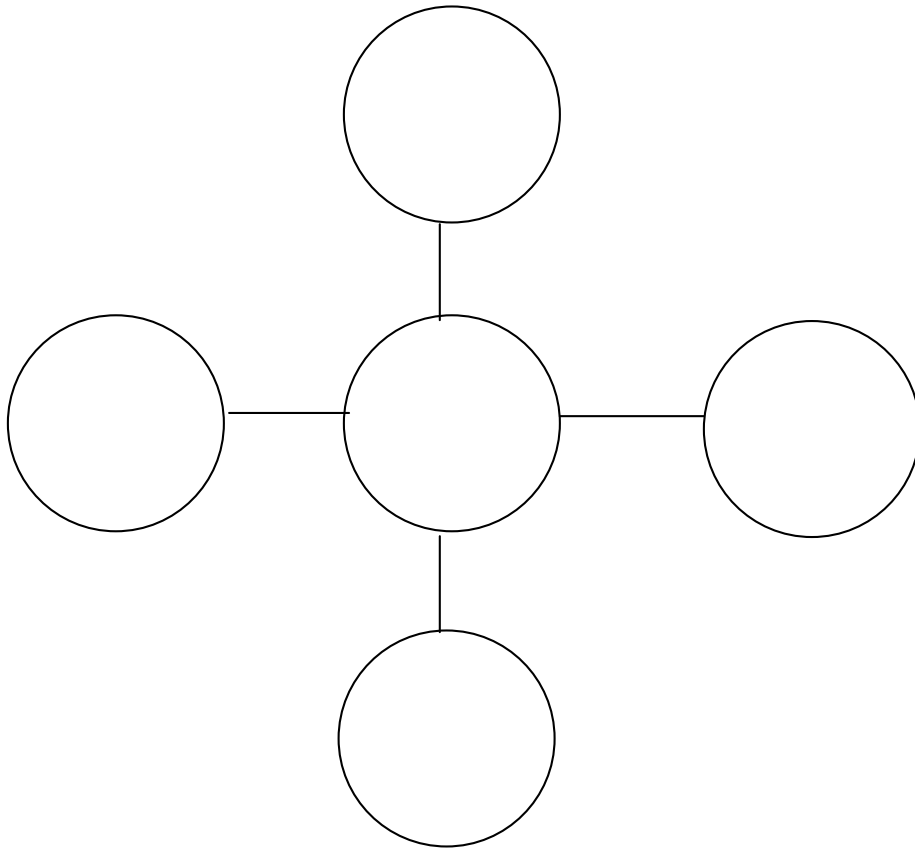


**WEDNESDAY MORNING MATH -
LEVEL 1, PROBLEM 1**

Place the 5 digits, 1-5, in the circles below so that the sum of the 3 numbers in each line is the same, and totals 10. Use each digit just once.



**WEDNESDAY MORNING MATH -
LEVEL 1, PROBLEM 2**

A frog can jump 2 feet. How many jumps are needed for the frog to cover a distance of at least 13 feet?

Prove your answer with a picture or diagram below.

**WEDNESDAY MORNING MATH -
LEVEL 1, PROBLEM 3**

$a \triangle b$ means $(a + b) - (a - b)$

For example:

$$\begin{aligned} 6 \triangle 4 &= (6 + 4) - (6 - 4) \\ &= 10 - 2 \\ &= 8 \end{aligned}$$

How much larger is $10 \triangle 8$ than $8 \triangle 6$?

Show all of your work below.

**WEDNESDAY MORNING MATH -
LEVEL 2, PROBLEM 1**

In the addition problem below, find the number represented by ABC.

$$\begin{array}{r} 132 \\ 469 \\ + \underline{ABC} \\ 999 \end{array}$$

**WEDNESDAY MORNING MATH -
LEVEL 2, PROBLEM 2**

The last Friday of a particular month is on the 26th day of the month. What day of the week is the first day of that month?

WEDNESDAY MORNING MATH – LEVEL 2, PROBLEM 3

Amanda, Jess, Conner, and Molly helped put prizes in boxes and bags for the Village Green Fair. Each bag has 10 prizes. Each box has 100 prizes.

- Amanda packed the toy cars. She packed 5 boxes, 3 bags, and had 4 cars left over.
- Jess packed the balls. She packed 1 more box than Amanda did, but Amanda packed 1 more bag than she did. Jess didn't have any balls left over.
- Conner packed the kites. Amanda packed 1 more box than Conner, but Conner packed 6 more bags than Amanda. Conner had 3 kites left over.
- Molly packed CDs. She packed 1 more box than Jess. Conner packed 1 more bag than Molly. Molly had 1 CD left over.

How many of each prize did they have for the fair?

**WEDNESDAY MORNING MATH -
LEVEL 3, PROBLEM 1**

If $a \triangle b = (b + b - a) - (a - b)$, how much larger is

$9 \triangle 8$ than $7 \triangle 5$? Show your work below.

WEDNESDAY MORNING MATH - LEVEL 3, PROBLEM 2

Robert, Gary, Catherine, and Eddie each bought snacks from several vending machines. Each person got back 6 coins, but they were different combinations of coins.

Each person received less than \$1 in change. The machines returned only nickels, dimes, and quarters. Each person had at least one of each coin.

- Robert had the fewest dimes but the same number of quarters as Eddie.
- Gary had an equal number of nickels, dimes, and quarters.
- Catherine had the same number of quarters as Gary.
- Eddie had more dimes than Catherine.
- Catherine had more dimes than quarters.
- Robert had fewer quarters than Catherine.

Question: How much money did each person get back from the machines?

Bonus question: How much money did they get back in all?

**WEDNESDAY MORNING MATH -
LEVEL 3, PROBLEM 3**

Logic Links Puzzle:

You will need to fill in the circles below with the following colors. (You don't need crayons though - just use abbreviations. R for red, o for orange, etc.)

2 red, 1 orange, 1 yellow, 1 green, 1 blue (b), 1 purple, 1 white, 1 black (bk)

Clue 1: Both red chips are on the bottom row.

Clue 2: The black chip is not on the left.

Clue 3: The black & yellow chips are on the same row, but do not touch.

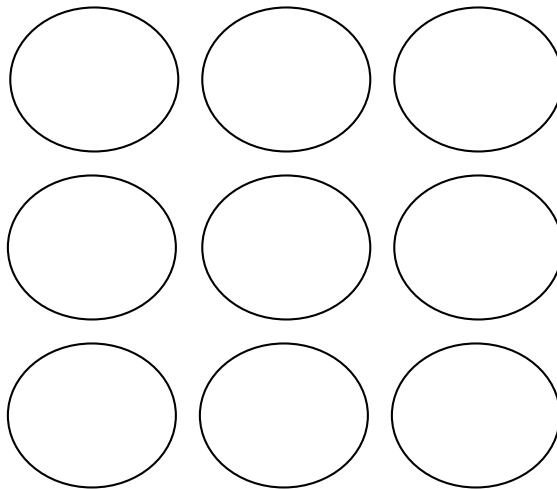
Clue 4: The purple chip is directly to the right of a red chip.

Clue 5: The white chip is directly above a red chip.

Clue 6: The orange chip is on the right.

Clue 7: The yellow chip is directly below the blue chip.

Clue 8: The green chip is on the top row.



**WEDNESDAY MORNING MATH -
LEVEL 4, PROBLEM 1**

The Owen family has 3 children. Duncan's age plus Robert's age add to 29 years. Duncan's age plus Frances' age add to 27 years. Robert's age plus Frances' age add to 22 years. The difference between the oldest child and the youngest child is _____ years.

Show your work below.

WEDNESDAY MORNING MATH - LEVEL 4, PROBLEM 2

Diophantus was a Greek mathematician who lived in the third century. He was one of the first mathematicians to use algebraic symbols.

Most of what is known about Diophantus's life comes from an algebraic riddle from around the early sixth century. The riddle states:

Diophantus's youth lasted one sixth of his life. He grew a beard after one twelfth more. After one seventh more of his life, he married. 5 years later, he and his wife had a son. The son lived exactly one half as long as his father, and Diophantus died four years after his son.

How many years did Diophantus live?

WEDNESDAY MORNING MATH -
LEVEL 4, PROBLEM 3

Arrange the numbers 1, 2, 3, 4, & 7 so the indicated combination of the four numbers on each of the two squares is 6.

