WEDNESDAY MORNING MATH -
LEVEL 1, PROBLEM 1

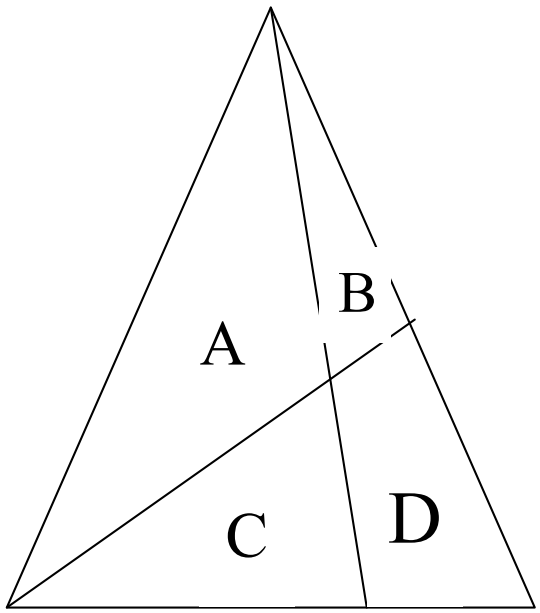
A pet store has only dogs and cats. There are a total of 64 legs for all the dogs and cats. If there are 9 dogs, how many cats are there? 7 cats

9 dogs = 36 legs
64 total legs - 36 dog legs = 28 cat legs

28 cat legs = 7 cats

WEDNESDAY MORNING MATH - LEVEL 1, PROBLEM 2

How many triangles are there in the figure below?

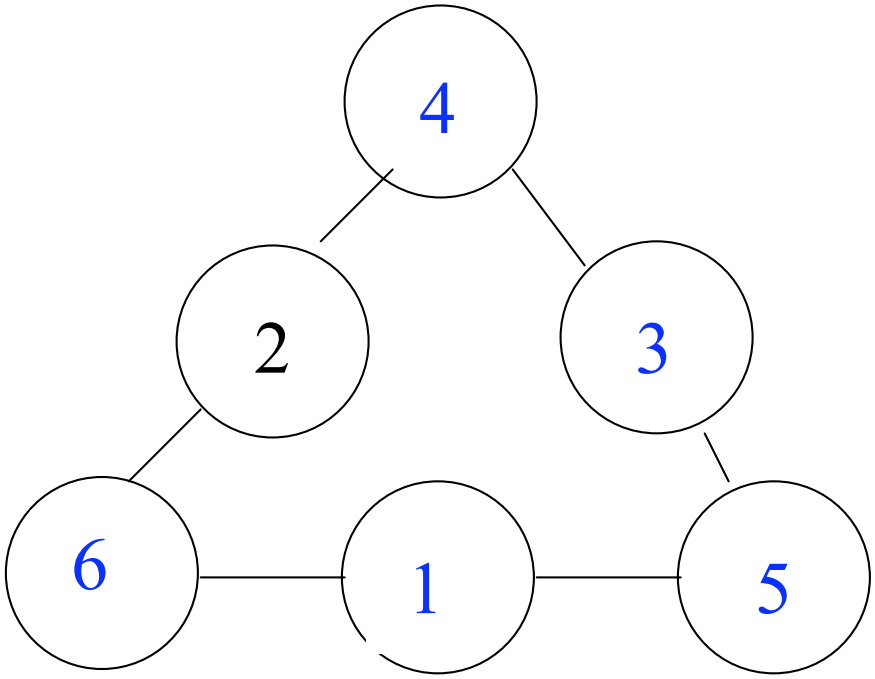


8 triangles total

1. A
2. B
3. C
4. ABCD
5. AB
6. AC
7. BD
8. CD

WEDNESDAY MORNING MATH -
LEVEL 1, PROBLEM 3

Arrange the numbers 1, 3, 4, 5, and 6 to make a triangle so that the sum of the three numbers on each side is the same.
ONE SOLUTION LISTED BELOW - THERE ARE OTHERS…..



WEDNESDAY MORNING MATH –
LEVEL 2, PROBLEM 1

Seven plums and 3 pears weigh as much as 4 apples. One apple weighs as much as 1 plum and 1 pear. How many plums weigh as much as 1 pear? 3 plums

Show your work below.

Since 7 plums and 3 pears weigh as much as 4 apples, and 1 apple weighs as much as 1 plum and 1 pear, THEN 7 plums and 3 pears weigh as much as 4 plums and 4 pears.

Therefore, 3 plums weigh as much as 1 pear.

WEDNESDAY MORNING MATH – LEVEL 2, PROBLEM 2

There are 18 people waiting in line for a taxi. At least 1 person but no more than 6 people must go in each taxi. No two taxis can have the same number of passengers. What is the least number of taxis needed to accommodate the 18 people? 4 taxis

Show all of your work below.

Taxi 1: 6 people
Taxi 2: 5 people
Taxi 3: 4 people
Taxi 4: 3 people

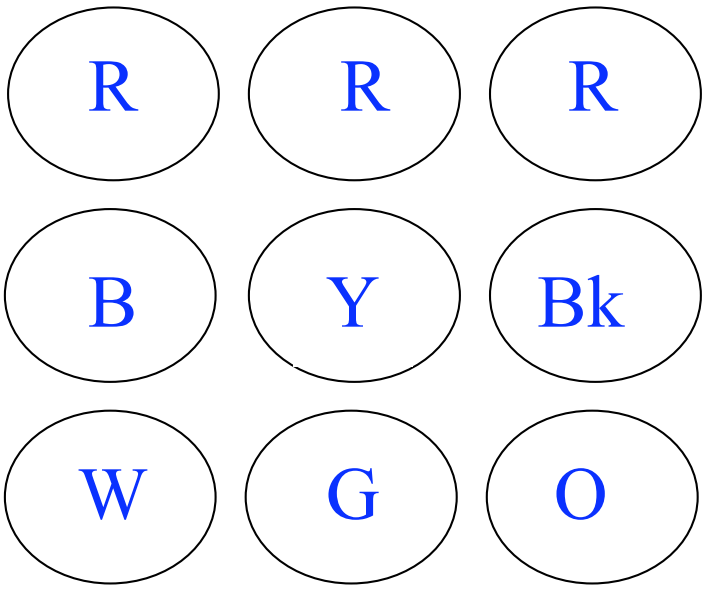
6 + 5 + 4 + 3 = 18

WEDNESDAY MORNING MATH – LEVEL 2, PROBLEM 3

Logic Links Puzzle:

Fill in the circles below with the following colors: 3 red (R), 1 orange (O), 1 yellow (Y), 1 green (G), 1 blue (B), 1 white (W), and 1 black (Bk)

Clue 1: The yellow chip touches only one red chip.
Clue 2: The yellow chip doesn't touch the white chip or the orange chip.
Clue 3: The blue chip is directly above the white chip.
Clue 4: the black chip is on the right.
Clue 5: A red chip is directly above the yellow chip.
Clue 6: No red chips are on the bottom.
Clue 7: The yellow chip is in the center.



WEDNESDAY MORNING MATH – LEVEL 3, PROBLEM 1

During his school vacation, Lyle cared for his neighbors' pets while the neighbors were away. He got paid for each visit to each house. Lyle made 36 trips in all. He had to keep track of the number of times he went to each house.

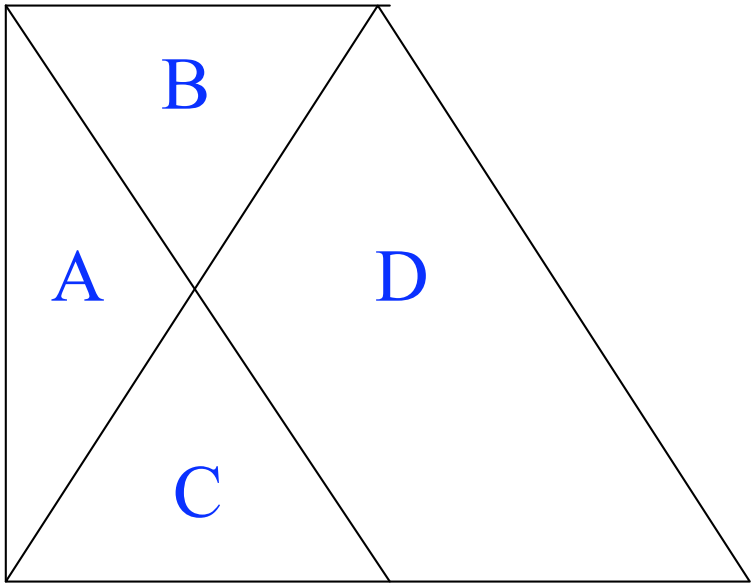
- Lyle fed and played with the McGraths' cat, Snowball, twice a day for four days while the family was away.
- He walked the Dunns' dog, Fido, twice a day, but for one day less than he took care of Snowball.
- Chow, the Carbones' puppy, needed a lot of attention. So Lyle went to the Carbones' house three times a day. The Carbone family was away two more days than the McGrath family.
- Lyle visited the Quinns' hamster, Squeaky, less often than he visited any other pet.

How many trips did he make to each house?

Snowball = 8 trips
Fido = 6 trips
Chow = 18 trips
Squeaky = 4 trips

WEDNESDAY MORNING MATH - LEVEL 3, PROBLEM 2

How many triangles are there in the figure below? 6 triangles



6 triangles:

1. A
2. B
3. C
4. A & B
5. A & C
6. D & C

WEDNESDAY MORNING MATH –
LEVEL 3, PROBLEM 3

Danielle bought a bag of gum drops. She has fewer than 75 in the bag. If she counts them by 2s, 3s, or 4s, she has one left over. If she counts them by 5s, she has none left over. How many gum drops did Danielle buy? 25 gum drops

The number must be odd and a multiple of 5. Of 5, 15, 25, 35, 45, 55 and 65, only 5, 25, 45, and 65 leave a remainder of 1 when divided by 4. Then 25 is the only one of those numbers that leaves a remainder of 1 when divided by 3.

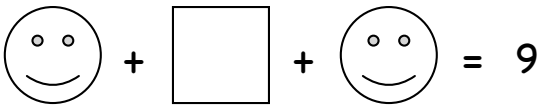
WEDNESDAY MORNING MATH –
LEVEL 4, PROBLEM 1

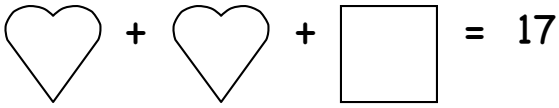
In Mr. Stanley's classroom there are the same number of desks in each row. Tonya's seat is in the third row from the front and the fourth row from the back. Her seat is third from the left end of the row and fifth from the right. How many desks are there in Mr. Stanley's classroom? 42 desks

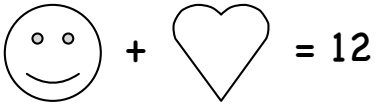
This is a great example of a problem where I would encourage the students to draw a picture or diagram. If they do that, they will see that there have to be 6 rows and 7 desks in each row. 6 x 7 = 42 desks

WEDNESDAY MORNING MATH – LEVEL 4, PROBLEM 2

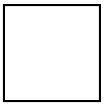
Solve the puzzle below by determining what number belongs in each shape. Each shape in the puzzle represents a number.







What is the value of  ? 4

What is the value of  ? 1

What is the value of  ? 8

WEDNESDAY MORNING MATH - LEVEL 4, PROBLEM 3

Camp Pineview's cook, Margaret Johnson, was just about to begin preparing the picnic lunch for all the campers. She already knew she needed to fill 55 bowls of the same size and capacity with the same amount of food. When she was done, she decided to read the guidelines for the picnic, just out of curiosity. The guidelines said:

1. Every camper gets their own bowl of soup.
2. Every two campers will get one bowl of spaghetti to share.
3. Every three campers will get one bowl of salad to share.
4. All campers are required to have their own helping of salad, spaghetti, and soup.

After some rapid calculations, Margaret was able to figure out how many campers were going to the picnic. Can you?

30 campers (number must be divisible by 2 and 3, and follow above clues)