

## WEDNESDAY MORNING MATH - LEVEL 1, PROBLEM 1

Michelle wanted to pick some flowers for her grandmother. Her mother said she could pick 17 tulips from the beautiful garden in their backyard. Michelle wanted to make sure she picked the most colorful tulips.

She chose 5 yellow, 3 blue, 2 purple, and 4 red. The rest of the tulips were pink.

How many pink tulips did Michelle pick? **3**

Show your work below.

$$5 + 3 + 2 + 4 = 14 \text{ non-pink tulips}$$

$$17 - 14 = 3 \text{ pink tulips}$$

## WEDNESDAY MORNING MATH - LEVEL 1, PROBLEM 2

Rob needs to be at the bus stop by 7:30 a.m. to catch a ride to school. It takes him 15 minutes to get dressed, 20 minutes to eat breakfast, 10 minutes to walk his dog, and 5 minutes to walk to the bus stop.

What time should he get up to make sure he does not miss the bus?

6:40 a.m.

Show your work below.

$$15 + 20 + 10 + 5 = 50 \text{ minutes}$$

$$7:30 - 50 \text{ minutes} = 6:40 \text{ a.m.}$$

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

Continued from previous problem:

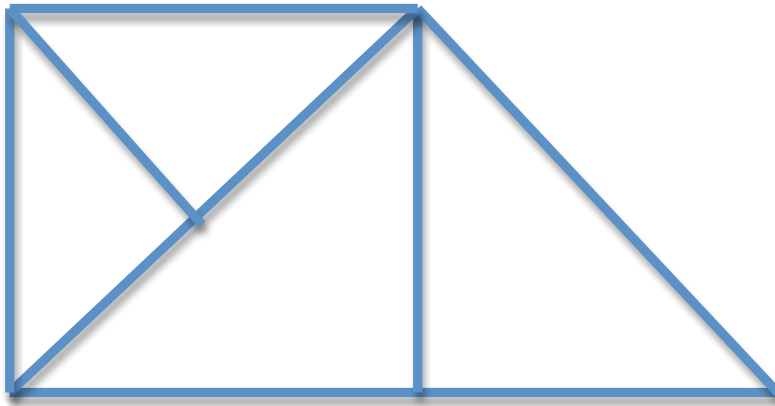
Rob's mother insists that he get 9 hours of sleep on school nights.  
He likes to read in bed for  $\frac{1}{2}$  hour before turning out the light.

What time should he hop into bed? **9:10 p.m.**

**6:40 a.m. - 9  $\frac{1}{2}$  hours = 9:10 p.m.**

WEDNESDAY MORNING MATH -  
LEVEL 2, PROBLEM 1

How many triangles are there in the figure below? 6



## WEDNESDAY MORNING MATH - LEVEL 2, PROBLEM 2

On her birthday in 2003, Ellie's family sat at the dinner table together. Her little sister Anne asked their father how old he was. Dad replied, "I'm 3 years younger than your mother."

Not satisfied with that answer, Anne asked Mom how old she was. "If you five children add all your ages together, you will get my age," Mom said.

Uncle Ted wanted to help Anne figure it out, but he didn't remember the children's ages, so he asked them.

- Anne held up 4 fingers.
- Joe said, "I'm 2 years younger than Alex."
- Ellie replied, "I was born in 1985."
- "I am 1 year younger than Joe," said Sara.
- Alex told him, "I'm half as old as Ellie."

Use the clues to find Dad's age. Be sure to show your work!

Ellie = 18

Anne = 4

Mom = 46

Joe = 7

Alex = 9

Sara = 8

Dad is 3 years younger than Mom (46),  
so Dad is 43.

## WEDNESDAY MORNING MATH - LEVEL 2, PROBLEM 3

Every Wednesday is salad bar day at Ashley's school. The most popular ingredients are cherry tomatoes, cucumber slices and shredded carrot.

Last Wednesday, out of the 27 students in Ashley's class.....

14 took carrot,

13 took cucumber,

16 took tomato,

8 took cucumber and tomato,

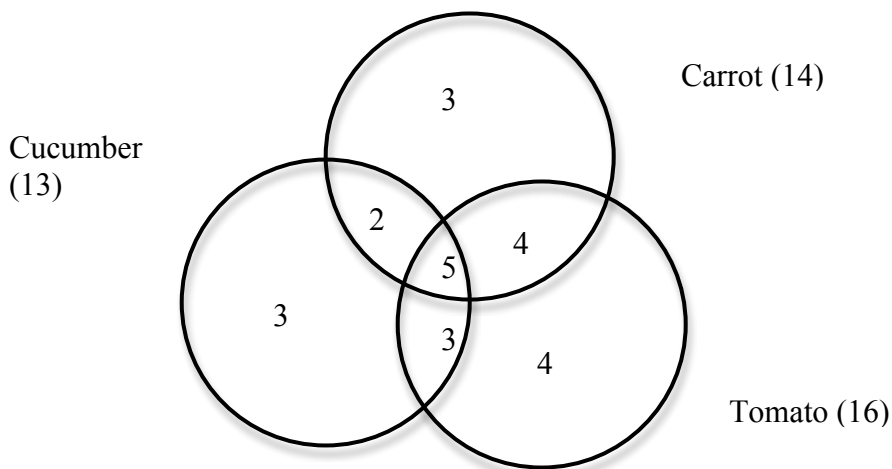
9 took tomato and carrot,

7 took carrot and cucumber,

and 5 put all three on their salads.

How many students took none of these? **3 students**

**\*tell students to use a Venn Diagram.....**



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

My jumping rope was cut in half  
half was thrown away.  
The other half was cut again  
one third along the way.  
The longer part (ten feet long)  
is what I use to play.  
How long was my jumping rope  
when I began today?

**Answer: 30 feet**

**(I would encourage the students to work backwards. If the longer part is 10 feet and that is  $\frac{2}{3}$  of the rope, then the other  $\frac{1}{3}$  must be 5 feet long. So, the rope was 15 feet long after half was thrown away, so the original rope must have been 30 feet long.)**

## WEDNESDAY MORNING MATH – LEVEL 3, PROBLEM 2

Dad bakes some cookies. He eats one hot out of the oven and leaves the rest on the counter to cool. He goes outside to read.

Dave comes into the kitchen and finds the cookies. Since he is hungry, he eats a half a dozen of them.

Then Kate wanders by, feeling rather hungry as well. She eats half as many as Dave did.

Jim and Eileen walk through next, and each of them eats one third of the remaining cookies.

Hollis comes into the kitchen and eats half of the cookies that are left on the counter.

Last of all, Mom eats just one cookie.

Dad comes back inside, ready to pig out. “Hey!” he exclaims. “There is only one cookie left!”

How many cookies did Dad bake in all? **22 cookies**

**I would encourage the kids to work backwards, literally starting at the end of the problem where Dad comes in and there is one cookie left, and then read backwards, figuring out the number of cookies at each stop.**



## WEDNESDAY MORNING MATH - LEVEL 3, PROBLEM 3

We have three chips. A one-digit positive whole number is written on each side of each chip. The six numbers used on the chips are consecutive.

Tossing the chips once, we get 6, 7, and 8, for a sum of 21.

Then we shake and toss them a few more times and get the sums of 16, 17, 20 and 23.

Which number is on the opposite side of number 6? **5**

Which number is on the opposite side of number 7? **9**

Which number is on the opposite side of number 8? **4**

**I would encourage the students to just try some numbers. They have to be able to get sums of 21, 16, 17, 20, & 23 with their numbers.**

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

In the addition problem below, find the digit represented by  $y$ .  
(Different letters represent different digits. Each time the same letter appears it represents the same digit.)

$$\begin{array}{r} x\ y\ z \\ +\ z\ y\ x \\ \hline 5\ 6\ 4 \end{array}$$

$$y = 8$$

Since  $y + y$  is even, one is not carried from the one's place,  $y$  is either 3 or 8. Since one is carried from the ten's place,  $y$  must be 8.

I would have the students begin by trying different numbers and seeing what works and what doesn't.

## WEDNESDAY MORNING MATH – LEVEL 4, PROBLEM 2

Scattered around the house are 100 nuts in 5 bowls.

- The 1<sup>st</sup> and 2<sup>nd</sup> bowls together contain 48 nuts.
- The 2<sup>nd</sup> and 3<sup>rd</sup> bowls together contain 34.
- The 3<sup>rd</sup> and 4<sup>th</sup> bowls together contain 30.
- The 4<sup>th</sup> and 5<sup>th</sup> bowls together contain 48.

How many nuts are there in each bowl?

1<sup>st</sup> bowl = 18 nuts

2<sup>nd</sup> bowl = 30 nuts

3<sup>rd</sup> bowl = 4 nuts

4<sup>th</sup> bowl = 26 nuts

5<sup>th</sup> bowl = 22 nuts

Trial & error is the best way to get started on this problem!

## WEDNESDAY MORNING MATH – LEVEL 4, PROBLEM 3

“I’m three days older than Jasmine, who lives next door. How much older are you than I am?” Zak asked his brother Abdul.

Abdul said, “I was six when you were born.”

“But we don’t have the same birthday, so you aren’t exactly six years older. How many days older are you?”

Abdul thought for a few seconds and said, “Zak, I challenge you to figure out by how many days I’m older, and after you have finished, I’ll set a challenge for myself and figure out by how many hours I’m older.”

Each boy smiled thinking that he had the easier challenge.

Information:

- Zak was born on March 3, 1994 at 1:00 p.m. at Forbes Hospital.
- Abdul was born in the same hospital on November 9, 1987 at 10:30 a.m.
- 1988 & 1992 are leap years.

How many days older is Abdul? **2306 days older**

**$365 \times 6 = 2190$  (6 years difference bet. the boys) + 2 for leap yr.  
 $2192 + 91 = 2283$  (3 months from 11/9/93-2/9/94)  
 $2283 + 24 = 2306$  (24 days from 2/9-3/3)**