

WEDNESDAY MORNING MATH - LEVEL 1, PROBLEM 1

Ben wants an ice cream cone, but he is having trouble deciding which flavor and topping to get. He can get either cookie dough ice cream or chocolate ice cream, and either cookie crumbles or sprinkles for a topping.

What are the different combinations of ice cream cone that Ben can get? Show your work below.

Cookie dough - cookie crumbles

Cookie dough - sprinkles

Chocolate - cookie crumbles

Chocolate - sprinkles

4 combinations

WEDNESDAY MORNING MATH - LEVEL 1, PROBLEM 2

Jay's family planted an apple tree right outside his window when he was born. It was 10 feet tall when they planted it.

On Jay's 1st birthday, they measured the height. The apple tree was 12 feet tall.

When he turned two, it had grown to 14 feet.

On Jay's 3rd birthday, the tree was 16 feet tall.

If this pattern continues, how tall will the tree be on her fourth birthday?

18 feet tall

How many feet does the tree grow every year? **2 feet**

How tall will the tree be on Jay's 10th birthday? **30 feet tall**

Show your work below.

Age	0	1	2	3	4	5	6	7	8	9	10
Ft.	10	12	14	16	18	20	22	24	26	28	30

WEDNESDAY MORNING MATH - LEVEL 1, PROBLEM 3

You have 12 cents to spend at a bake sale. You have decided that you want to buy three treats, and spend all of your money.

Which treats can you buy? Is there more than one combination that will work?

Brownie - 6 cents

Sugar Cookie - 2 cents

Ginger Snap - 1 cent

Muffin - 4 cents

Slice of Cake - 7 cents

1. Brownie, Cookie, Muffin
2. Ginger Snap, Muffin, Cake

WEDNESDAY MORNING MATH - LEVEL 2, PROBLEM 1

The students in Mrs. Garcia's class get a star each time they give a book report to their class. In September, Juanita earned 4 stars. Matt earned 2 more stars than Juanita. Maria received 4 more stars than Matt. Brian got half as many stars as Maria.

- How many stars did each student earn?
Juanita - 4 stars
Matt - 6 stars
Maria - 10 stars
Brian - 5 stars
- Who earned the most stars? Maria
- How many stars did the students earn all together?
 $4 + 6 + 10 + 5 = 25$ stars

WEDNESDAY MORNING MATH – LEVEL 2, PROBLEM 2

In 2000, Eric started to collect rocks. He began with 5 the 1st year, with the goal of increasing the number of additions by one each year. (his 2001 goal was 6 new rocks)

Eric has met his goal each year, but a few other happenings have changed his collection.

In 2003 Eric bought 7 additional rocks, but he gave three to his little brother.

In 2005 his little brother gave him back one rock, as well as three others, in exchange for a CD.

In 2008, he lost twenty rocks down the drain when someone pushed him. Eric was glad when his father gave him ten more rocks later that year to help make up for the loss.

Last Tuesday he traded two more rocks for one big rock.

Assuming that it is now 2010 and he has already met his goal for this year, how many rocks does Eric have in his collection? Show your work below.

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
# of rocks	5	6	7	8 + 7 -3	9	10 + 1 + 3	11	12	13- 20+10	14	15 - 2 +1

Total: $5 + 6 + 7 + 12 + 9 + 14 + 11 + 12 + 3 + 14 + 14 = 107$

WEDNESDAY MORNING MATH - LEVEL 2, PROBLEM 3

The elevator in Melissa's apartment building has a sign that says, "Weight now to exceed 800 pounds." Every time Melissa rides in the elevator, she reads the sign and wonders how many people could take the elevator and still stay under the limit. She decides to collect some information by asking her brothers, mother, and some of her neighbors about their weights.

They give her this information:

- Melissa: 70 pounds
Richard: I weigh the same as Zeke, our dog. (50)
Steve: In Roman numerals, I weight LXXXV lbs. (85)
Mom: I weigh twice as much as you do. (140)
Mr. Tristano: I used to weight 180 lbs, but I lost 15 lbs. (165)
Daniella Tristano: I weigh 20 lbs. more than half of my dad's old weight. (110)
Zeke: 190 lbs. minus Mom's weight. (50)

If they all get into the elevator together, how close are they to the weight limit? Show your work below.

$$70+50+85+140+165+110+50=670$$

$$800-670 = 130 \text{ pounds below the weight limit}$$

WEDNESDAY MORNING MATH - LEVEL 3, PROBLEM 1

Cassie bought grapefruit for a charity breakfast. She purchased 5 boxes of large ruby red organic grapefruit, with a dozen grapefruit in each box. The supplier gave her a great price of \$19 per box to support the charity. She doesn't have to pay any taxes, so she won't have to pay any more per box.

At the breakfast, Cassie will sell the grapefruit for \$1.50 for a half of a grapefruit.

How much profit will Cassie make for the charity if she sells all of the grapefruit halves?

5 boxes, 12 in each, \$19 per box..... $\$19 \times 5 = \95 total

$\$1.50/\text{grapefruit half} = \3 per grapefruit

$12 \times \$3 = \36 per box of grapefruit

$\$36 \times 5$ boxes = \$180

$\$180 - \$95 = \$85.00$ profit

WEDNESDAY MORNING MATH - LEVEL 3, PROBLEM 2

Andrea's school is having a Science Fair this afternoon and she agreed to bring four dozen cupcakes for the reception afterwards. To catch her bus, she needs to be out of the house at 7:50 a.m. She started icing the cupcakes at 7:40 a.m., at a rate of 3 cupcakes per minute.

She soon realized that she wasn't going to finish in time, so at 7:44 her older sister, Zoe, started icing cupcakes too. She iced them at a rate of 4 cupcakes per minute. As they iced the cupcakes, they placed them directly in the boxes that she would carry on the bus. This way, when they iced the last cupcake, Andrea would be ready to dash out the door.

Did they finish in time for Andrea to catch her bus? **YES**
Show your work below.

Time:	Andrea	Zoe
7:40-7:41	3	
7:41-7:42	3	
7:42-7:43	3	
7:43-7:44	3	
7:44-7:45	3	4
7:45-7:46	3	4
7:46-7:47	3	4
7:47-7:48	3	4
7:48-7:49	3	4
7:49-7:50	3	4

At 7:50 they will have had time to ice 54 cupcakes.

WEDNESDAY MORNING MATH – LEVEL 3, PROBLEM 3

Jackie and Sam have each numbered a blank pair of cubes. As they toss them, they add the numbers landing face up. Soon they expand the game to include looking for patterns.

Jackie: “Sam! Guess what? You won’t believe this!”

Sam: “What, Jackie?”

Jackie: “I have numbered my cubes so that I can roll any sum from 1 to 36.”

Sam: “That’s impossible. You mean that if I roll your cubes, I can get any of the whole numbers from 1 to 36?”

Jackie: “That’s what I’m saying.”

Sam: “No way, Jackie. That can’t be done.”

Who is right about the cubes? **JACKIE**

If Jackie is right, how may she have labeled her cubes?

If Sam is right, then why is Jackie’s claim impossible?

Cube #1: 0, 6, 12, 18, 24, 30

Cube #2: 1, 2, 3, 4, 5, 6

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

Using each of the digits 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 once and only once, find a way to express the number one hundred.

You may use any operations you wish, but be sure to check your answer.

There are many answers to this, but one solution is:

$$9 \times 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1 + 0 = 100$$

WEDNESDAY MORNING MATH – LEVEL 4, PROBLEM 2

Frostbite Valley School had a Winter Carnival. Three teams entered the cross-country ski race: Snow Bunnies, Yetis, and Polar Bears. Each team had 3 skiers.

Skiers scored points according to the order in which they crossed the finish line. The winner scored 8 points, the second finisher 7 points, and so forth, down to no points for last place.

The first two Snow Bunnies to finish were so close together that the judges had to watch the video to determine their places. A Polar Bear broke his pole and finished last.

When the points were totaled, all 3 teams had the same score.

1. List the order in which the 9 skiers finished by team.
2. Explain how you found your answer and how you know it is correct.

Snow Bunnies	Yetis	Polar Bears
3 rd = 6 points	2 nd = 7 points	1 st = 8 points
4 th = 5 points	6 th = 3 points	5 th = 4 points
8 th = 1 point	7 th = 2 points	9 th = 0 points
12 points	12 points	12 points

WEDNESDAY MORNING MATH – LEVEL 4, PROBLEM 3

The Academy Awards introduced a new category last year for Animated Feature Film. The first winner was *Shrek*. Ticket prices in our area during the run of this film were approximately \$8.50.

For the year that I was born, *Oliver!* won both musical score and best picture. During that year, my parents could purchase a movie ticket for about \$1.25. Had they seen a musical on Broadway, tickets would have cost about \$15.00.

If ticket prices for musicals rose at the same rate as did those for movies, what would it cost to see a musical version of *Shrek*?

$$1.25 \times 12 = 15.00$$

$$8.50 \times 12 = 102.00$$

\$102.00