

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

A stamp album has 9 pages. The number of stamps on each page is 4 less than the number of pages in the album.

How many stamps are there in the album?

5 stamps on each page x 9 pages = 45 stamps
in the album

WEDNESDAY MORNING MATH - LEVEL 1, PROBLEM 2

Kira's three cousins, Andy, Joe, and Rebecca, came for a visit for the weekend. Each of them brought their favorite computer games to play. Together, Kira and her cousins had 22 games. Half of the games belonged to Kira. The rest belonged to her cousins.

- Andy brought 2 more games than Joe brought.
- Rebecca brought 1 more game than Andy brought.

How many games did each person have at Kira's house?

Kira had 11 games.

Andy had 4 games.

Rebecca had 5 games.

Joe had 2 games.

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

A worm is at the bottom of a 12-foot well. Every day it crawls up 3 feet, but at night it slips down 2 feet. How many days does it take the worm to get to the top of the well?

10 days

Each day the worm will gain 1 foot. At the end of the ninth day, the worm is at 9 feet. On the 10th day, the worm will climb up to 12 feet – and he will be able to get out. He does not need to slide back down two feet.

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

Bryce, Lena, and Suzy went to the Clark's Candy Company to see how chocolate is made. When they left, Mrs. Clark gave them each 1 pound of chocolate broken into 3 pieces. She reminded them that 1 pound = 16 ounces. The sizes of the 9 chocolate pieces were: 2 oz, 2 oz, 3 oz, 4 oz, 5 oz, 6 oz, 7 oz, 8 oz, and 11 oz.

- Bryce had the largest piece of chocolate.
- One of Suzy's pieces was the same size as one of Bryce's pieces.

What sizes were the 3 pieces of chocolate that each person had?

Bryce: 11 oz, 3 oz, 2 oz

Lena: 7 oz, 5 oz, 4 oz

Suzy: 8 oz, 6 oz, 2 oz

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

Mrs. Stern's sixth grade class has an equal number of boys and girls. If there were 6 fewer boys and 6 more girls, there would be twice as many girls as boys.

How many students are there in Mrs. Stern's class?

36 total - 18 girls and 18 boys

**WEDNESDAY MORNING MATH -
LEVEL 2, PROBLEM 3**

On the day Sarah was born, her grandparents gave her \$1. On each birthday that followed, they gave her twice as much money as they had given her the year before.

How much money did Sarah's grandparents give her on her 6th birthday?

\$64

At birth - Sarah receives \$1

At age 1 - Sarah receives \$2

At age 2 - Sarah receives \$4

At age 3 - Sarah receives \$8

At age 4 - Sarah receives \$16

At age 5 - Sarah receives \$32

At age 6 - Sarah receives \$64

WEDNESDAY MORNING MATH - LEVEL 3, PROBLEM 1

A total of 128 basketball teams enter a tournament. If a team loses a game, it is out of the tournament. If a team wins, it moves on to the next round and continues to play until it loses a game. Overtime will be played, so no game will end in a tie.

How many games must be played in this tournament?

127 games in all

1st round = 64 games

2nd round = 32 games

3rd round = 16 games

4th round = 8 games

5th round = 4 games

6th round = 2 games

7th round = 1 game

$$64 + 32 + 16 + 8 + 4 + 2 + 1 = 127$$

**WEDNESDAY MORNING MATH -
LEVEL 3, PROBLEM 2**

The whole numbers are written across a piece of paper in order. There is room for 100 digits and there are no spaces between each digit. What is the last digit in the first row?

012345678910111213...

4

0-9 take up 10 spaces. The 90 spaces left are for the first 45 two-digit numbers starting with 10. The 45th two-digit number would be 54, so the last digit is 4.

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

If $fs_2 = 1 + (2 + 2) = 5$ and $fs_3 = 1 + (2 + 2) + (3 + 3 + 3) = 14$,
what is the value of fs_5 in simplest form? Show all of your work
below.

$$\begin{aligned}Fs_5 &= 1+(2+2)+(3+3+3)+(4+4+4+4)+(5+5+5+5+5) \\ &= 1 + 4 + 9 + 16 + 25 \\ &= 55\end{aligned}$$

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

Two football teams agree that a touchdown is worth 7 points and not bother with kicking the extra point. A field goal is worth 3 points. What is the highest score a team CANNOT reach with any combination of touchdowns and field goals?

11

1, 2, 4, 5, 8, & 11 cannot be reached. Once three consecutive numbers can be reached (12, 13, and 14) then all others can be reached by just adding 3 each time. 11 is the highest that cannot be reached.

**WEDNESDAY MORNING MATH -
LEVEL 4, PROBLEM 2**

Naomi and her mom spent \$11.00 and purchased 31 pieces of fruit for the family. They bought at least one piece of each kind of fruit so that they would have an assortment.

- The amount they spent on each kind of fruit was a multiple of \$0.50.
- They spent the most on pears.
- The cost of all the oranges was the same as the cost for all the lemons.
- They bought just one pineapple because it would serve the whole family. It cost half as much as all the pears.
- They spent the same amount on grapefruit as on apples, but got one more grapefruit than apples.

How many pieces of each kind of fruit did they buy?

Fruit	# bought	Cost
Pears	8	\$4.00
Grapefruit	6	\$1.50
Oranges	5	\$1.00
Lemons	6	\$1.00
Pineapples	1	\$2.00
Apples	5	\$1.50
Total	31	\$11.00

WEDNESDAY MORNING MATH – LEVEL 4, PROBLEM 3

Luigi made 3 large lasagnas for the weekend dinners. The 4 kids finished a lasagna each night, but different kids ate different amounts.

On Friday evening, Alex ate one third of the lasagna, Frank and Joe each ate one quarter, and Luigi ate the rest.

On Saturday evening, Frank and Luigi each ate one third and Alex and Joe shared the rest equally.

On Sunday evening, Alex, Frank, and Joe had portions the same size as Luigi's Friday night portion. Luigi ate the rest.

Who ate the most lasagna during the weekend? **Luigi**

From most to least, what portion of a whole lasagna did each person eat? Answers must be in simplest form.

	Alex	Frank	Joe	Luigi
Friday	$\frac{4}{12}$	$\frac{3}{12}$	$\frac{3}{12}$	$\frac{2}{12}$
Saturday	$\frac{2}{12}$	$\frac{4}{12}$	$\frac{2}{12}$	$\frac{4}{12}$
Sunday	$\frac{2}{12}$	$\frac{2}{12}$	$\frac{2}{12}$	$\frac{6}{12}$
Total:	$\frac{8}{12}$ or $\frac{2}{3}$	$\frac{9}{12}$ or $\frac{3}{4}$	$\frac{7}{12}$	$\frac{12}{12}$ or 1

Luigi ate 1 whole lasagna.

Frank ate $\frac{3}{4}$ of a lasagna.

Alex ate $\frac{2}{3}$ of a lasagna.

Joe ate $\frac{7}{12}$ of a lasagna.