Math Strategies 1

Q4 Post PSSA - May 6-10,2024

Monday & Tuesday

Analyzing Games of Chance

Mathematical goals

This unit is designed to help students to:

- Confront and overcome common probability misconceptions.
- Count equally likely outcomes using diagrams.
- Discuss relationships between theoretical probabilities, observed outcomes, and sample sizes.
- Calculate probabilities of independent events.

Mathematical Content Standards

This lesson asks students to select and apply mathematical content from across the grades, including the *content standards*:

► **7.SP:**   *Investigate chance processes and develop, use, and evaluate probability models.*

Monday

Warmup: Each student independently completes pages 1 & 2 to determine groups and starts the connection to the matching of page 3 -8 . Turn in .

Students then practice Math 24 cards independently. Record answers on their paper.

Spinner Bingo

Sally has made a Spinner Bingo game for her class.

Red   Blue
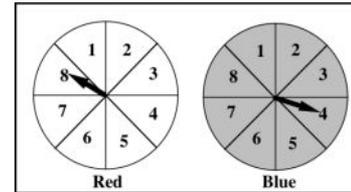
Write down 9 different numbers on your card.

I will spin both spinners and add up the two numbers I get.
If you have that total on your Bingo card, you cross it off.
The first person to cross off all the numbers wins the prize.

Tuesday

Mrs. Pletcher reviews the answers and discusses pages ! & 2 with class.

Groups are made by Mrs. Pletcher - students review page 3-8 to present answers as a group.

Students present their findings - and each group makes corrections.

Each student then individually completes page 9 - 10 and turns it in.

Wednesday & Thursday

Interpreting Equations

Mathematical goals

This lesson unit is intended to help students to:

- Connect algebraic equations to real-life situations.
- Uncover and address misconceptions concerning the meaning of variables in equations.

Objectives:

Apply and extend previous understandings of arithmetic to algebraic expressions.
Reason about and solve one-variable equations and inequalities.
Represent and analyze quantitative relationships between dependent and independent variables.

Wednesday: Continue

Warmup: Each student independently completes the first page to determine groups and starts the connection to the matching of page 2 & 3. Turn in .

Students then practice Math 24 cards independently. Record answers on their paper.

Real-life Equations

1. Suppose that there are some chairs in a room and that each chair has 4 legs.

x = the **number** of chairs.
y = the **total number** of legs on all the chairs.

Put a check mark in the box next to every equation below that you think is correct.

(a) $x = 4y$ ☐   (b) $y = 4x$ ☐   (c) $x = \dfrac{y}{4}$ ☐   (d) $y = \dfrac{x}{4}$ ☐

Explain your answer(s).

Thursday:

Mrs. Pletcher reviews the answers and discusses page 1 with class.

Groups are made by Mrs. Pletcher - students review page 2 & 3 to present answers as a group.

Students present their findings - and each group makes corrections.

Each student then individually completes page 4 and turns it in.

Friday

Students play Math 24 in teams Mrs. Pletcher assigns from the samples given on Monday and Wednesday.