

YPS Parent Academy

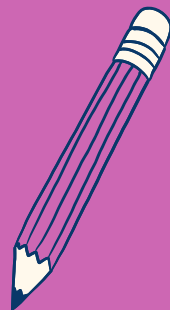
Are you **G.A.M.E.** in Math?

Session 1: 1/28/23

Lower Elementary



$$X = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



$$a^2 + b^2 = c^2$$

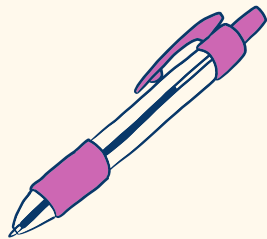


Introductions!

Who am I?

Please share:

- Name
- Child's School
- Child's Grade Level
- Your experience with math using one word.



Our Parent Workshops!

Come join us for a series of workshops for parents of students in **grades K-8**, designed to teach you:

- math concepts that your child is learning in school
- math tools you can use to assist your child in better understanding the math concepts
- games and activities you can use with your child to reinforce what they are learning in school



When

- **9:30-11:30AM** on select Saturdays
 - 1/28/23
 - 2/11/23
 - 3/4/23
 - 3/18/23
 - 4/15/23
 - 4/29/23
 - 5/6/23

Math is a Gate-Keeper!



Math is a Gate-Keeper!

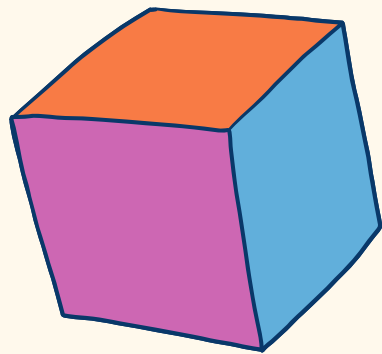
Time to Reflect

- What does “Math is a Gate-Keeper” mean?
- These students appeared more confident in their math ability when the instruction changed. What did you notice students doing in the video?
- How is your experience learning math different from what is described in the video?

Adding and Subtracting Whole Numbers

There are 15 players on a team.
There are 7 girls. The rest of the players
are boys. How many boys are on the team?

1. What would you do to solve this problem?
2. What might your child struggle with?



A photograph of a piece of lined paper with handwritten work. On the left, a subtraction problem is written: 15 minus 7 equals 8. The 15 has a small '0' above it, and the 7 has a small 'x' above it. A horizontal line is drawn under the 7. To the right of the equation, the text 'There are 8 boys on the team' is written inside a hand-drawn rectangular box.
$$\begin{array}{r} 0 \times 15 \\ - 7 \\ \hline 8 \end{array}$$

There are 8 boys on the team



Using Base Ten Blocks



1. Cut out your base ten blocks.
2. How many different ways can you express the number 142, using hundreds, tens and ones?

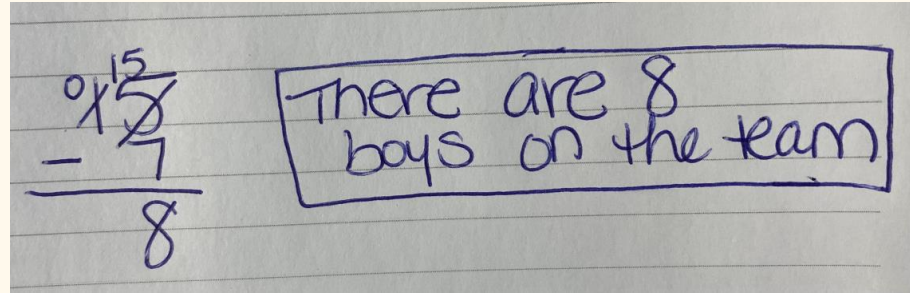


Apply Equivalent Fractions

**There are 15 players on a team.
There are 7 girls. The rest of the players
are boys. How many boys are on the team?**

How can you use our
base ten blocks to
solve this problem?

How do we represent the
idea of “borrowing” using
base ten blocks?



The image shows a handwritten solution on lined paper. On the left, a subtraction problem is written: 15 minus 7 equals 8. The 15 is written with a small '0' above the 1 and a '5' above the 5. A horizontal line is drawn under the 15, and another horizontal line is drawn under the 7. The result '8' is written below the second line. To the right of the subtraction problem, a rectangular box is drawn and contains the text "There are 8 boys on the team".

$$\begin{array}{r} 0 \times 15 \\ - 7 \\ \hline 8 \end{array}$$

There are 8 boys on the team



24 Game: Addition and Subtraction Primer

Two circular frames on a blue background. The left frame has a yellow center with a red cross and a red square in the middle containing a plus-minus sign. The numbers 12, 17, 7, and 15 are arranged around the cross. The right frame has a yellow center with a red cross and a red square in the middle containing a minus-plus sign. The numbers 7, 15, 12, and 8 are arranged around the cross. Below the frames is a small inset card with a yellow center, a red cross, and a red square in the middle containing a plus-minus sign. The numbers 4, 7, and 11 are arranged around the cross. To the right of the inset card is the equation $11 - 7 = 4$. The card is marked with a single dot in the top-left and bottom-right corners.

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Two circular frames on a blue background. The left frame has a yellow center with a red cross and a white square in the middle containing a plus-minus sign. The numbers 12, 6, 3, and 3 are arranged around the cross. The right frame has a yellow center with a red cross and a white square in the middle containing a minus-plus sign. The numbers 11, 7, 1, and 3 are arranged around the cross. Below the frames is a small inset card with a blue center, a red cross, and a red square in the middle containing a plus-minus sign. The numbers 1, 7, and 11 are arranged around the cross. To the right of the inset card are the equations $11 - 7 = 4$, $4 + 1 = 5$, $7 - 1 = 6$, $11 - 6 = 5$, $11 + 1 = 12$, and $12 - 7 = 5$. The card is marked with two red dots in the top-left and bottom-right corners.

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Let's Play!

Please give us feedback!

