



Sample Questions

Age Group 3

Math Mysteries:

A number is multiplied by 5 and then added to 7. The result is 42. What is the number?

- A. 5
- B. 7
- C. 8
- D. 9

Algebraic Adventures:

Solve the inequality:

$$2x - 5 < 11.$$

- A. $x < 8$
- B. $x > 8$
- C. $x < 3$
- D. $x > 3$

Rational Number Riddles:

Which of the following fractions is equivalent to $\frac{3}{5}$?

- A. $\frac{4}{6}$
- B. $\frac{6}{10}$
- C. $\frac{9}{15}$
- D. $\frac{12}{20}$

Geometry Galaxies:

What is the sum of the interior angles of a triangle?

- A. 90 degrees
- B. 180 degrees
- C. 270 degrees
- D. 360 degrees

Proportional Relationships:

If a car travels 240 miles in 4 hours, what is its average speed in miles per hour?

- A. 40 mph
- B. 60 mph
- C. 80 mph
- D. 120 mph

Data Analysis Detectives:

In a group of 83 gym members, 51 are taking kickboxing and 25 are taking yoga. Of the students taking kickboxing or yoga, 11 are taking both classes. How many members are not taking either course?

- A. 24
- B. 39
- C. 7
- D. 18

Exponents Expedition:

Simplify $2^2 \times 2^3$

- A. 8
- B. 16
- C. 32
- D. 64

Function Frenzy:

What is the slope of a vertical line?

- A. 0
- B. 1
- C. Undefined
- D. Infinity