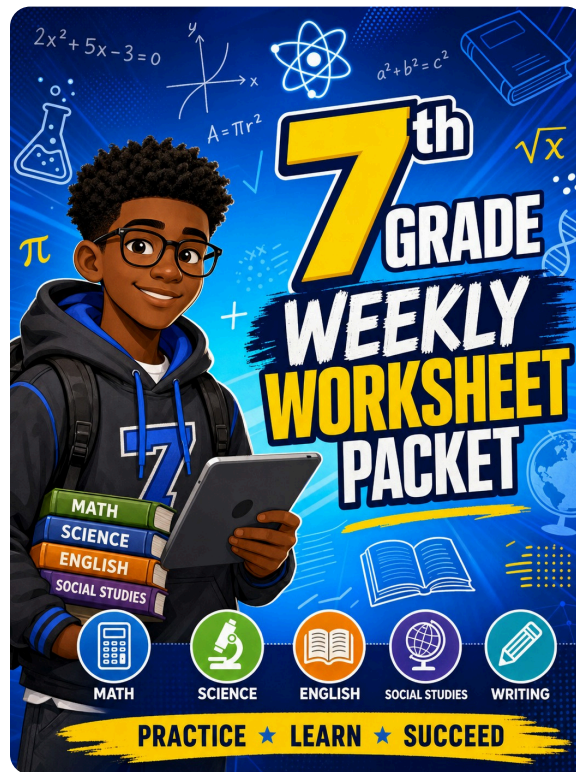


7th Grade Weekly Worksheet Packet



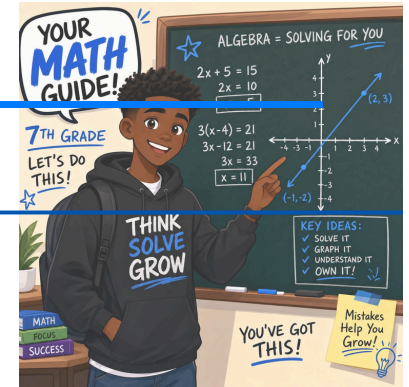
Everything you need for a successful year!
Math • Vocabulary • Reading Comprehension

Engaging activities designed for middle school success.
Perfect for classroom, homeschool, and extra practice.

Math: Ratios & Proportions

Understanding Proportional Relationships

1. A recipe calls for 2 cups of flour for every 3 cups of sugar. If you use 6 cups of flour, how much sugar do you need?

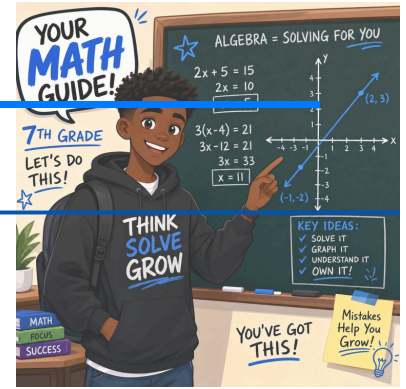


2. A car travels 180 miles in 3 hours. What is its unit rate in miles per hour?

3. Are the ratios 4:6 and 10:15 equivalent? Show your work.

Math: The Number System

Operations with Rational Numbers



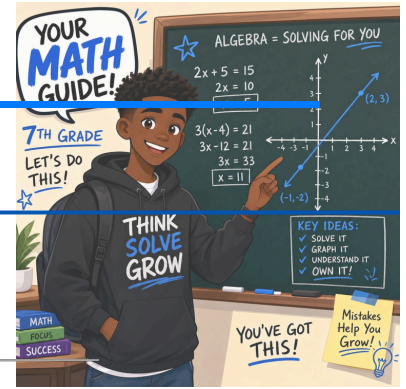
1. Solve: $(-8) + 15 =$ _____ $10 - (-4) =$ _____

2. Solve: $(-5) \times 7 =$ _____ $(-24) \div (-3) =$ _____

3. Convert $3/5$ to a decimal and a percentage.

Math: Expressions & Equations

Solving Multi-Step Equations



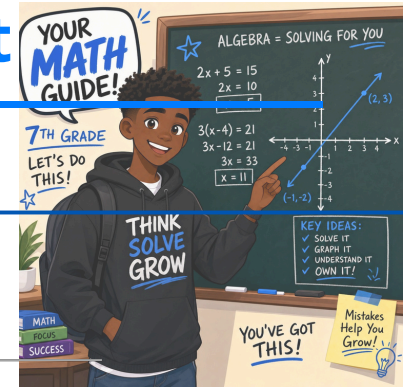
1. Simplify the expression: $3(2x - 5) + 4x$

2. Solve for y: $2y + 7 = 19$

3. Write an equation for: "Four more than twice a number is 20." Then solve it.

Math: Geometry & Measurement

Area, Circumference & Volume



1. Find the circumference of a circle with a radius of 7 cm (use $\pi \approx 3.14$).

2. A rectangular prism has length 6m, width 3m, and height 2m. Find its volume.

3. If a square has an area of 81 sq cm, what is the length of one side?

Math: Statistics & Probability

Analyzing Data & Likelihood

DataSet: 5, 8, 12, 15, 20

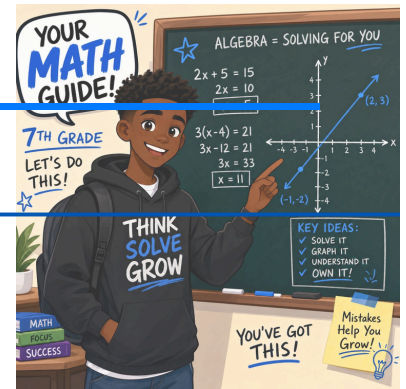
1. Find the Mean, Median, and Range of the data set.

Mean: _____

Median: _____

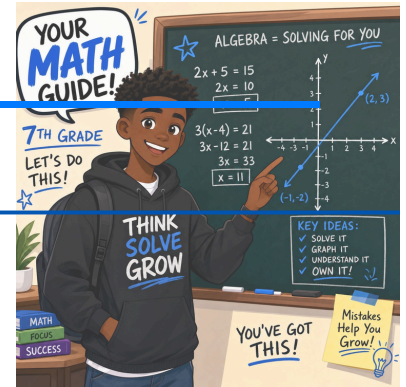
Range: _____

2. What is the probability of picking a red marble from a bag containing 3 red, 5 blue, and 2 green marbles?



Math: Word Problem Challenge

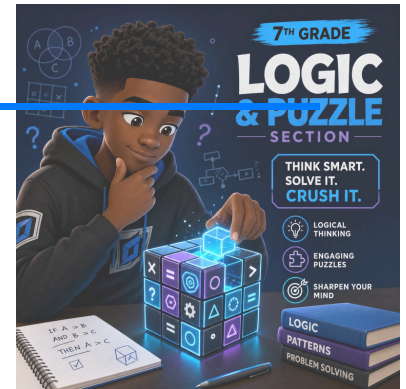
Advanced Problem Solving



A store offers a 25% discount on a \$120 jacket. If sales tax is 8%, what is the final price?

Sarah can read 40 pages in 50 minutes. At this rate, how many hours will it take her to read a 360-page book?

Math: Logic & Puzzles



The Equation Maze

Solve your way through the maze by finding the correct value of 'x' for each equation. Start at 'Start' and end at 'Finish'.

Start -> $2x + 3 = 11$ -> $3x - 5 = 10$ -> $4(x+1) = 20$ -> Finish

Your Path:

Answer Key: Math

Math Solutions

Page 2: 1. 9 cups. 2. 60 mph. 3. Yes, both simplify to 2:3.

Page 3: 1. 7, 14. 2. -35, 8. 3. 0.6, 60%.

Page 4: 1. $10x - 15$. 2. $y = 6$. 3. $2x + 4 = 20$; $x = 8$.

Page 5: 1. 43.96 cm. 2. 36 m^3 . 3. 9 cm.

Page 6: 1. Mean: 12, Median: 12, Range: 15. 2. $3/10$.

Page 7: 1. \$97.20. 2. 7.5 hours.