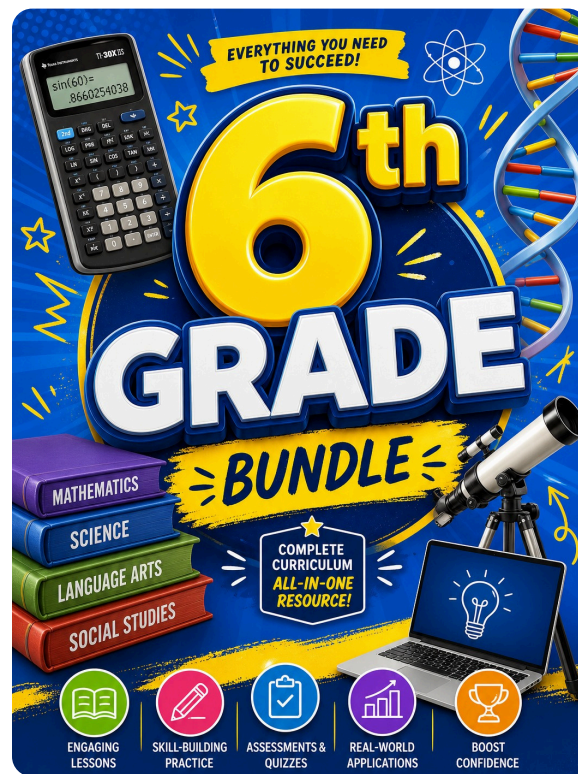


6th Grade Weekly Worksheet Packet



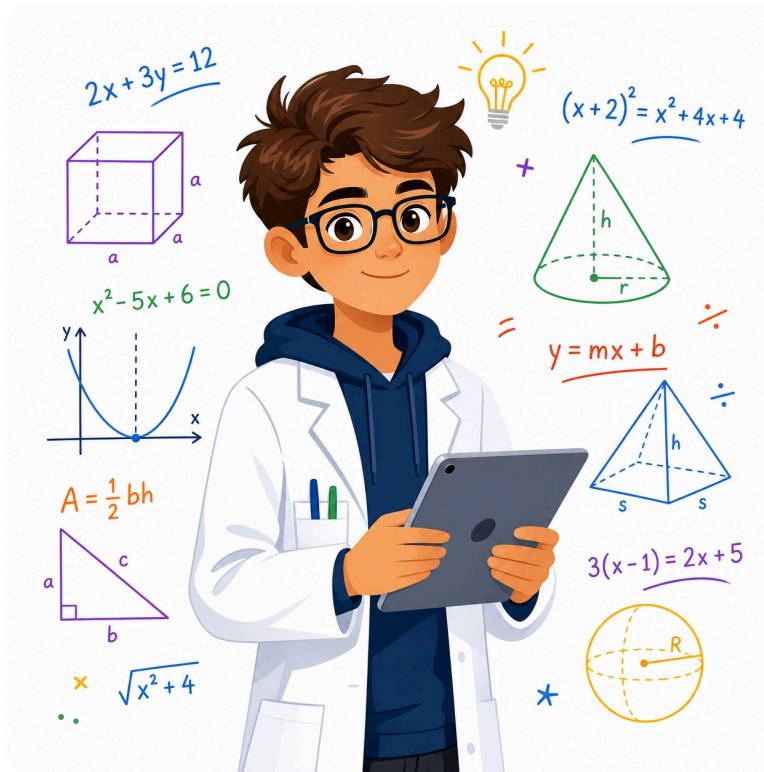
Everything you need for a successful year!

Math • Vocabulary • Reading Comprehension

Engaging activities designed for middle school success.

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Math: Ratios & Proportions



Understanding Ratios

1. Write the ratio of 4 triangles to 6 circles in three ways:

A) _____ B) _____ C) _____

2. A class has 12 boys and 15 girls. What is the ratio of boys to total students in simplest form?

3. If 3 pounds of apples cost \$4.50, how much do 10 pounds cost?

Math: The Number System

Integers & Rational Numbers

1. Compare using $<$, $>$, or $=$:

$$-15 \quad \underline{\hspace{1cm}} \quad -12 \quad | -8 | \quad \underline{\hspace{1cm}} \quad 5 \quad 0 \quad \underline{\hspace{1cm}} \quad -3$$

2. Solve the following:

$$(-12) + 7 = \underline{\hspace{1cm}}$$

$$15 - (-5) = \underline{\hspace{1cm}}$$

$$(-4) \times (-6) = \underline{\hspace{1cm}}$$

3. Convert $5/8$ to a decimal:

Math: Expressions & Equations

Algebraic Thinking

1. Write an expression for: "Seven less than three times a number n "

2. Evaluate $4x^2 - 5$ when $x = 3$:

3. Solve for x : $5x + 10 = 35$

Math: Geometry

Area, Volume & Surface Area

1. Find the area of a triangle with base 12 cm and height 7 cm.

2. Find the volume of a rectangular prism with length 5 in, width 4 in, and height 10 in.

3. Calculate the surface area of a cube with side length 3 cm.

Math: Statistics & Probability

Data Analysis

DataSet: 10,15, 20, 15, 30, 10, 15

1. Mean: _____ Median: _____ Mode: _____

2. What is the probability of rolling a number greater than 4 on a standard 6-sided die?

Math: Word Problem Challenge



Real-World Application

A smart phone is on sale for 20% off the original price of \$600. After the discount, a 5% sales tax is added. What is the final cost?

A pool is being filled at a rate of 15 gallons per minute. If the pool holds 4,500 gallons, how many hours will it take to fill?

Math: Logic & Puzzles

The Great Equation Race

Solve these as fast as you can! Record your time.

1. $1/2 + 3/4 = ?$

2. 15% of 80 = ?

3. $\sqrt{64} + 12 = ?$

4. $3(x + 4) = 21$, $x = ?$

Your Time: _____

Answer Key: Math

Math Solutions

Page 2: 1. 4:6, 4 to 6, $\frac{2}{3}$. 2. $12:27 = 4:9$. 3. \$15.00

Page 3: 1. $<$, $>$, $>$. 2. -5, 20, 24. 3. 0.625

Page 4: 1. $3n - 7$. 2. 31. 3. $x = 5$

Page 5: 1. 42cm^2 . 2. 200in^3 . 3. 54cm^2

Page 6: 1. Mean: 16.4, Median: 15, Mode: 15. 2. $\frac{2}{6} = \frac{1}{3}$