

# GED

## Subjects

- **45% Quantitative Problem Solving**

**Number Operations**

**Geometric Thinking**

- **55% Algebraic Problem Solving**

## Math

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- **Is 115 minutes**
- **Is 2 parts with no break**
- **Does not allow the calculator on the first 5 questions**
- **Gives you some Math formulas**

### Measures your:

- **Quantitative problem-solving abilities (45%)**
- **Algebraic problem-solving abilities (55%)**

### Calculator:

**Texas Instruments TI-30XS/ *Multiview***

# *Math Brain Teaser*

$$\begin{array}{r} 6 + 4 = 210 \\ 9 + 2 = 711 \\ 8 + 5 = 313 \\ 5 + 2 = 37 \\ 7 + 6 = 113 \\ 9 + 8 = 117 \\ 10 + 6 = 416 \\ 15 + 3 = 1218 \end{array}$$

**TEXAS  
INSTRUMENTS  
TI-30XS  
Multiview  
Calculator**



**This is the calculator used on the Science, Social Studies & Math tests.  
There is a great calculator tutorial at [GED.com](http://GED.com)!**

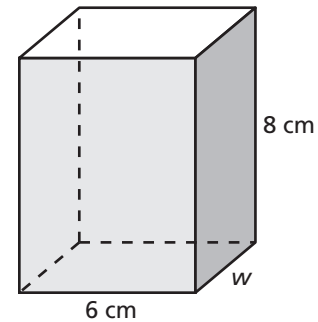
# Math Word Problems!

**HOW I SEE MATH WORD PROBLEMS:  
"IF YOU HAVE 4 PENCILS AND 7 APPLES,  
HOW MANY PANCAKES WILL FIT ON THE ROOF?  
PURPLE. BECAUSE ALIENS DON'T WEAR HATS."**



# ***GED Sample Math Question***

Find the width of the rectangular prism when the surface area is 208 square centimeters.

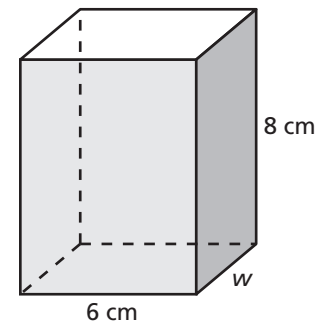


**And the answer is.....**

# **GED SAMPLE MATH ANSWER**

And the answer is.... **W = 4 cm**

Find the width of the rectangular prism when the surface area is 208 square centimeters.



## Mathematics Formula Sheet

### Area:

parallelogram  $A = bh$

trapezoid  $A = \frac{1}{2}(b_1 + b_2)h$

### Surface Area and Volume:

rectangular/right prism:  $SA = ph + 2B$   $V = Bh$

cylinder:  $SA = 2\pi rh + 2\pi r^2$   $V = \pi r^2 h$

pyramid:  $SA = ps + B$   $V = \frac{1}{3}Bh$

cone:  $SA = \pi rl + \pi r^2$   $V = \frac{1}{3}\pi r^2 h$

sphere:  $SA = 4\pi r^2$   $V = \frac{4}{3}\pi r^3$

( $p$  = perimeter of base  $B$  ;  $\pi \approx 3.14$ )

### Algebra:

slope of a line:  $m = \frac{y_2 - y_1}{x_2 - x_1}$

slope-intercept form of the equation of a line:  $y = mx + b$

point-slope form of the equation of a line:  $y - y_1 = m(x - x_1)$

standard form of a quadratic equation:  $ax^2 + bx + c = 0$

quadratic formula:  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Pythagorean Theorem:  $a^2 + b^2 = c^2$

simple interest:  $I = prt$  ( $I$  = interest,  $p$  = principal,  $r$  = rate,  $t$  = time)

# ***GED Sample Math Question***

What is the perimeter of a square that has an area of 1,459.24 square meters?

- A. 164.4 meters
- B. 152.8 meters
- C. 144 meters
- D. 139.8 meters

**And the answer is.....**



# ***GED Sample Math Answer***

**And the answer is.....**

What is the perimeter of a square that has an area of 1,459.24 square meters?

- A. 164.4 meters
- B. 152.8 meters**
- C. 144 meters
- D. 139.8 meters