# TIPS & STRATEGIES

#### 1. Process of elimination



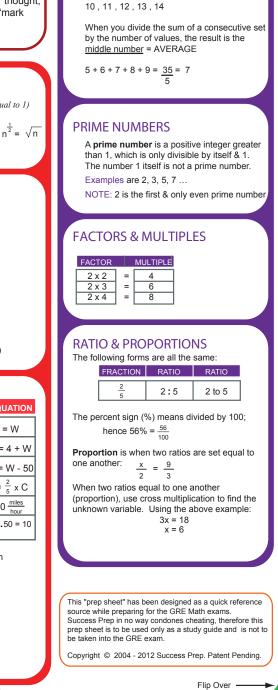
Use process of elimination to identify the wrong answers so you can focus on the possible right answers. Your GRE score will be determined by all the questions you answer correctly. You don't lose points for incorrect answers. Therefore, to maximize your GRE test score, it is best to answer every question.

### 2. On Screen Calculator

Most of the questions on the GRE don't require difficult computations, so don't use the calculator just because it is available. Use it for calculations that are tedious, such as long divisions and square roots.

### 3. Mark guestions and Answer EVERY guestion

Go through the GRE sections rapidly first, stopping only to answer questions you can answer with certainity. Then go back and answer the questions that require greater thought, concluding with the difficult questions if you have time. The testing software has a "mark and review" feature that enables you revisit questions you are unsure about.



**NUMBERS** &

OPERATIONS

negative (including zero) e.g. -2, -1, 0, 1, 2, 3

Integers do not include fractions & decimals.

Zero is neither a positive or negative integer.

Consecutive EVEN / ODD integer expression:

n, n+2, n+4 (n = any even/odd integer)

The average of a consecutive set of numbers

Integers are all whole numbers & their

CONSECUTIVE INTEGERS

is the middle number

Consecutive integer expression:

n, n+1, n+2 (n = any integer)

**INTEGERS** 

subtract the <b>coefficier</b> variable.	it (number in front) of the
a + a = 2a	$a \times a = a^2$
ab + ab = 2ab	$ab \times ab = a^2 b^2$
a + c = a + c	a×c=ac
a²+a³≠a⁵	$a^2 x a^3 = a^5$
b <sup>9</sup> - b <sup>2</sup> ≠ b <sup>7</sup>	$\frac{b^9}{b^2} = b^7$

ALGEBRA REVIEW

adding, subtracting, multiplying, dividing

When adding or subtracting a variable, add or

COMBINING VARIABLES

#### Examples:

4 <sup>17</sup> - 2 <sup>28</sup>	$2^2 + 2^2 + 3^6 + 3^6$
$= 2^{2(17)} - 2^{28}$	$= 2(2^2) + 3(3^6)$
= 2 <sup>34</sup> - 2 <sup>28</sup>	$= 2^3 + 3^7$
= 2 <sup>28</sup> (2 <sup>6</sup> - 1)	

ALSO REMEMBER...

 $a^0 = 1$  (Anything with a zero exponent is equal to 1)

 $m^{\frac{x}{y}} = (\sqrt[y]{m})^{x}$ 

## FACTORING

Difference of two squares:  $a^2 - b^2 = (a + b)(a - b)$ 

F.O.I.L. (First-Outer-Inner-Last)  $(a - b)^2 = (a - b)(a - b)$  $(a + b)^2 = (a + b)(a + b)$ 

 $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$  $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$ 

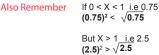
NOTE:  $(a - b)^2$  is **NOT** equal to  $(a^2 - b^2)$ 

WORD PROBLEMS - Translating word problems into math equations

+ 3<sup>6</sup> + 3<sup>6</sup>

v	VORDS	SYMBOL	EXAMPLE	EQUATION
is	, was, has	=	Eva is the same age as Wall-E.	E = W
m	nore than, older than, sum of	+	Eva has four <i>more</i> cookies <i>than</i> Wall-E	E = 4 + W
le	ess than, differences, fewer than	-	Eva is 50 centimeters <i>less than</i> Wall-E's height	E = W - 50
oj	f, product	x	Eva ate $\frac{2}{5}$ of the cake.	$E = \frac{2}{5} \times C$
fd	or, per	/	The car was travelling 20 miles per hour.	20 miles hour
w	hat percent	X 100	What percent of 50 is 10	$\frac{x}{100}$ .50 = 10

Assign variables to each person or object compared or identified in the problem EXTRA TIPS... using the first letter of the person's (or object's) name.



 $\sqrt{2} = 1.4$ 

 $\sqrt{3} = 1.7$ 

math

ex Ø rb

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