TIPS & STRATEGIES

1. The GMAT is Adaptive.

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This means the questions get harder or easier depending on whether your answer is correct or incorrect. Your score is not directly determined by how many questions you get right, but on how hard the questions are. You want to answer as many hard questions as possible. This is the reason to concentrate on the earlier questions so you can get harder questions which are worth more points.

2. Process of elimination and skipping.

Skipping isn't allowed on the **GMAT**, you have to answer the question to move on to the next one. If you can't answer a question, you have to guess to move on. Use **process of elimination** to identify the <u>wrong</u> answers so you can focus on the possible right answers

3. Finish the GMAT.

Answer all questions on the test even if you have to guess to finish as you run out of time at the end; this is because there is a penalty for unanswered questions on the **GMAT**. Every question left unanswered will decrease your score by a greater amount than a question that you answered incorrectly.

AIGEB	RA REVIEW	ALSO REMEMBER a ⁰ = 1 (Anything with a zero exponent is	equal to 1)	$5+6+7+8+9=\frac{35}{5}=$
COMBINING VARIABLES adding, subtracting, multiplying, dividin When adding or subtracting a variable, add or subtract the coefficient (number in front) of the		$m^5 = \frac{1}{m^5}$ $m^{\frac{x}{y}} = (\sqrt[y]{m})^x$	$n^{\frac{1}{2}} = \sqrt{n}$	RIME NUMBERS A prime number is a pos than 1, which is only divis The number 1 itself is not
variable. a + a = 2a ab + ab = 2ab a + c = a + c $a^2 + a^3 \neq a^5$ $b^9 - b^2 \neq b^7$	$a \times a = a^{2}$ $ab \times ab = a^{2}b^{2}$ $a \times c = ac$ $a^{2} \times a^{3} = a^{5}$ $\frac{b^{9}}{b^{2}} = b^{7}$	FACTORING Difference of two squares: $a^2 - b^2 = (a + b)(a - b)$ F.O.I.L. (First-Outer-Inner-Last) $(a - b)^2 = (a - b)(a - b)$	F	ACTORS & MULTIPLE
Examples: $4^{17} - 2^{28}$ $= 2^{2(17)} - 2^{28}$ $= 2^{34} - 2^{28}$ $= 2^{28}(2^6 - 1)$	$2^{2} + 2^{2} + 3^{6} + 3^{6} + 3^{6}$ $= 2(2^{2}) + 3(3^{6})$ $= 2^{3} + 3^{7}$	$(a + b)^2 = (a + b)(a + b)$ $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$ $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$ NOTE: $(a - b)^2$ is NOT equal to $(a^2 - b)^2$	b ²)	$\frac{2 \times 2}{2 \times 3} = \frac{4}{6}$ $\frac{4}{8}$ ATIO & PROPORTION forms are all the following f
WORD PROBL	EMS - Translating wo	rd problems into math equations	FOUATION	FRACTIONRATIO $\frac{2}{5}$ 2:5
is, was, has	=	Eva is the same age as Wall-E.	E = W	the percent sign (%) means hence 56% = $\frac{56}{100}$

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

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

Also Remember	lf 0 < X < 1 i.e 0.75 (0.75)² < √0.75
	But X > 1 <u>i.e</u> 2.5 (2.5)² > √2.5

 $\sqrt{2} = 1.4$

- .____
- √3 = 1.7

NUMBERS & OPERATIONS

INTEGERS

Integers are all whole numbers & their 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 INTEGERS

Consecutive integer expression: n, n+1, n+2 (n = any integer)

Consecutive **EVEN / ODD** integer expression: n, n+2, n+4 (*n* = any even/odd integer)

The average of a consecutive set of numbers is the middle number

10 , 11 , 12 , 13 , 14

When you divide the sum of a consecutive set by the number of values, the result is the middle number = AVERAGE

ve integer greater le by itself & 1. prime number. even prime number ES NS same: 2 to 5 ivided by 100; Proportion is when two ratios are set equal to one another: $\frac{x}{2} = \frac{9}{3}$ When two ratios equal to one another (proportion), use cross multiplication to find the unknown variable. Using the above example: 3x = 18 x = 6 This "prep sheet" has been designed as a quick reference source while preparing for the GMAT Math exams. Success Prep in no way condones cheating, therefore this prep sheet is to be used only as a study guide and is not to be taken into the GMAT exam. Copyright © 2004 - 2012 Success Prep. Patent Pending.

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