GMAT MATH FORMULA SHEET

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NUMBERS

FRACTIONS TO DECIMALS

$\frac{1}{2} = 0.5$
$\frac{1}{3} = 0.3$
$\frac{1}{4} = 0.25$
$\frac{1}{5} = 0.2$
$\frac{2}{5} = 0.4$
$\frac{3}{5} = 0.6$
$\frac{4}{5} = 0.8$
$\frac{1}{6} = 0.1\overline{6}$
$\frac{1}{7} = 0.\overline{142857}$
$\frac{1}{8} = 0.125$
$\frac{3}{8} = 0.375$
$\frac{5}{8} = 0.625$
$\frac{7}{8} = 0.875$

Know the decimal to fraction conversion for the same set of numbers, i.e. $0.375 = \frac{3}{8}$.

POWERS OF NUMBERS

$2^1 = 2$
$2^2 = 4$
$2^3 = 8$
$2^4 = 16$
$2^5 = 32$
$2^6 = 64$
$2^7 = 128$
$2^8 = 256$
$11^1 = 11$
$11^2 = 121$
$11^3 = 1331$
$11^4 = 14641$
$11^5 = 161051$
$3^1 = 3$
$3^2 = 9$
$3^3 = 27$
$3^4 = 81$
$4^1 = 4$
$4^2 = 16$
$4^3 = 64$
$4^4 = 256$
$5^1 = 5$
$5^2 = 25$
$5^3 = 125$

Also know the equalities above in reverse order, i.e. $64 = 2^6$.
Notice the following:
$16^2 = (2^4)^2 = 2^{4\cdot2} = 2^8 = 256$
$4^3 = (2^2)^3 = 2^{2\cdot3} = 2^6 = 64$
$4^4 = (2^2)^4 = 2^{2\cdot4} = 2^8 = 256$

OTHER NUMBERS

$\pi \approx 3.14$
$\sqrt{2} \approx 1.4$
$\sqrt{3} \approx 1.7$
$\sqrt{5} \approx 2.2$
$0^0 = 1$
$1^0 = 1$
$2^0 = 1$
$3^0 = 1$
$4^1 = 24$
$5^1 = 120$
$6^1 = 720$

Notice the following:
$1.4^2 = 1.96 \approx 2$ $1.7^2 = 2.89 \approx 3$
$1\text{million} = 1{,}000{,}000 = 10^6$
$1\text{billion} = 1{,}000{,}000{,}000 = 10^9$
Prime numbers less than 20:
2, 3, 5, 7, 11, 13, 17, 19

ARITHMETIC

ORDER OF OPERATIONS

1. Parentheses.
2. Exponents.
3. Multiplication and Division from left to right.
4. Addition and Subtraction from left to right.

FRACTIONS

Adding Fractions

$\frac{a}{b} + \frac{c}{d} = \frac{a \cdot d}{b \cdot d} + \frac{c \cdot b}{d \cdot b} = \frac{a \cdot d + c \cdot b}{b \cdot d}$

Ex: $\frac{2}{3} + \frac{3}{4} = \frac{2 \cdot 4}{3 \cdot 4} + \frac{3 \cdot 3}{4 \cdot 3} = \frac{2 \cdot 4 + 3 \cdot 3}{4 \cdot 3} = \frac{17}{12}$

Subtracting Fractions

$\frac{a}{b} - \frac{c}{d} = \frac{a \cdot d}{b \cdot d} - \frac{c \cdot b}{d \cdot b} = \frac{a \cdot d - c \cdot b}{b \cdot d}$

Ex: $\frac{1+y}{x} - \frac{x-1}{y} = \frac{y(1+y)}{xy} - \frac{x(x-1)}{yx} = \frac{y(1+y) - x(x-1)}{xy}$
$= \frac{y+y^2-x^2+x}{xy} = \frac{y+x+1}{xy}$

Multiplying Fractions

$\frac{a}{b} \cdot \frac{c}{d} = \frac{a \cdot c}{b \cdot d}$

Cancel any common factors from the denominators and the numerators and then multiply.

Ex: $\frac{3}{8} \cdot \frac{4}{10} = \frac{3}{2 \cdot 4} \cdot \frac{2 \cdot 2}{2 \cdot 5} = \frac{1 \cdot 3}{2 \cdot 2} \cdot \frac{1 \cdot 1}{1 \cdot 5} = \frac{1}{4}$

Dividing Fractions

$\frac{\frac{a}{b}}{\frac{c}{d}} = \frac{a}{b} \cdot \frac{d}{c}$ Ex: $\frac{\frac{5}{6}}{\frac{3}{4}} = \frac{5}{6} \cdot \frac{4}{3} = \frac{5}{3} \cdot \frac{2}{3} = \frac{10}{9}$

Multiplying/Dividing Fractions with Decimals

Convert decimals into fractions, and then calculate.

Ex: $0.33 \cdot \frac{2}{11} \div 0.6 = \frac{33}{100} \cdot \frac{2}{11} \div \frac{3}{5} = \frac{3 \cdot 11}{100} \cdot \frac{2}{11} \cdot \frac{5}{3} = \frac{3}{100} \cdot \frac{2}{1} \cdot \frac{5}{3} = \frac{1}{10}$

MULTIPLYING/DIVIDING LARGE AND SMALL NUMBERS

Express the numbers using scientific notation. Then calculate.

Ex: $\frac{0.0004}{0.008} \cdot 500 = \frac{4 \cdot 10^{-4}}{8 \cdot 10^{-3}} \cdot 5 \cdot 10^2 = \frac{4}{8} \cdot 10^{-4-(-3)} \cdot 5 \cdot 10^2 = \frac{1}{2} \cdot 10^{-1} \cdot 5 \cdot 10^2 = \frac{5}{2} \cdot 10^{2-1} = 25$

MULTIPLYING/DIVIDING EXPONENTIALS

ALGEBRA

EXPONENTS

Rule	Example

COMMON PRODUCTS

$(ax+b)(cx+d) = acx^2 + adx + bcx + bd$
Ex: $(2x+y)(3x-2y)$
$= 2x \cdot 3x + 2x \cdot (-2y) + y \cdot 3x + y \cdot (-2y)$
$= 6x^2 - 4xy + 3xy - 2y^2$
$= 6x^2 - xy - 2y^2$

$(x+y)^2 = x^2 + 2xy + y^2$
Ex: $(3x+2y)^2 = (3x)^2 + 2 \cdot 3x \cdot 2y + (2y)^2$
$= 9x^2 + 20xy + 4y^2$

$(x-y)^2 = x^2 - 2xy + y^2$
Ex: $(\sqrt{3} - \sqrt{2})^2$
$= (\sqrt{3})^2 - 2 \cdot \sqrt{3} \cdot \sqrt{2} + (\sqrt{2})^2$
$= 5 - 2\sqrt{6}$

$(x+y)(x-y) = x^2 - y^2$
Ex: $(3 - \sqrt{2})(3 + \sqrt{2}) = 3^2 - (\sqrt{2})^2 = 9 - 2 = 4$

Be able to apply the above rules in reverse order.
Ex: $x^2 - 2x - 24 = (x+4)(x-6)$
$9y^2 + 4x^2 + 12xy = (3y+2x)^2$
$-8x + 2x^2 + 8 = 2(-4x + x^2 + 4) = 2(2-x)^2$
$-9 + 4x^2 = 4x^2 - 9 = (2x+3)(2x-3)$

EQUATIONS WITH ONE VARIABLE

Cross Multiply Technique

If both the left hand side and the right hand side of the equations are or can be expressed as fractions, apply the cross multiply technique.

Ex: $\frac{x-3}{x+4} = \frac{2}{3} \Rightarrow 3(x-3) = 2(x+4)$
$3x - 9 = 2x + 8$
$x = 17$

Self check

Plug the solutions you have found back into the original equations and check if the equations still holds.

Suppose $x = 17$ is the solution you found for equation $\frac{x-3}{x+4} = \frac{2}{3}$:
$\frac{17-3}{17+4} = \frac{14}{21} = \frac{2}{3}$
The solution is correct.

SIMULTANEOUS LINEAR EQUATIONS

Solving by Substitution

1. Express any of the two equations, write y in terms of x.
2. Plug the expression for y into the other equation.
3. Solve for x in the new one-variable linear equation.
4. Computer y by plugging the value of x into the expression found in step 2.

Ex: $\begin{cases} x + y = 5 & (1) \\ x - y = 1 & (2) \end{cases}$

Using equation (1) to write y in terms of x gives $y = 5 - x$.
Plugging into equation (2) gives $x - (5 - x) = 1$. Solving x yields $x = 3$. Plugging in the expression for y gives $y = 2$.

Gmat Formula Sheet

R Sandford

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