

Comprehensive Media Math Formula Sheet

		sage with one consum	<u>ier</u>				
Impression	=	Rating (or TRPs, or 0	Coverage)	- x	Universe		
Local Impressions For A Local & Nationa		= -		Local GRPs	• x Lo	ocal Target Universe	
Impression	=	Cost CPM		- х	1,000		
Rating/Coverage (print)	- Number	of impressions expres	sed as a %	of a universe			
Rating, TRP or Coverage	=	Impressions Universe	х	100			
Local Rating (TRP)	=	Local Impressions Local Universe	х	100			
National Rating (TRP)	=	Local Impressions National Universe	х	100			
TRPs	=	Reach	х	Fred	luency		
Rating Points (TRP)	=		Cost CPP				
Universe GRPs & TRPs - The sum	=	Impressions x Rating	100	1% Universe	=	Universe x	0.01
	n of rating	points in a schedule/ca	ampaign				
Schedule <u>Total</u> TRPs	n of rating =	points in a schedule/ca (# Program A Insertion	ns x Program	A Rating) + (# P C Insertions x Pr	~	_	ing) + (#
Schedule <u>Total</u> TRPs Schedule <u>Average</u> Rating		(# Program A Insertion	ns x Program Program	-	ogram C Rating	g)	ing) + (#
Schedule <u>Average</u>	=	(# Program A Insertion	ns x Program Program Fotal # Of Sch	C Insertions x Pr Schedule Total	ogram C Rating	g)	ing) + (#
Schedule <u>Average</u> Rating	=	(# Program A Insertion	ns x Program Program Fotal # Of Sch messages	C Insertions x Pr Schedule Total	ogram C Rating	g)	
Schedule <u>Average</u> Rating Reach - The % of an au	= = dience ex	(# Program A Insertion The state of the s	ns x Program Program Fotal # Of Sch messages ressions	C Insertions x Pr Schedule Total nedule Insertions - x 100	rogram C Rating al TRPs Or Spots (All F Reach =	rograms) TRPs Frequence	
Schedule <u>Average</u> Rating Reach - The % of an au Reach	= = dience ex	(# Program A Insertion The state of the s	ns x Program Program Fotal # Of Sch messages ressions posed to the	C Insertions x Pr Schedule Total nedule Insertions - x 100	rogram C Rating al TRPs Or Spots (All F Reach =	rograms) TRPs Frequence TRPs	
Schedule Average Rating Reach - The % of an au Reach Frequency - The average	= dience ex = e number =	(# Program A Insertion posed to one or more in Unduplicated Improverse of times a target is expected Impressions Unduplicated Impressions Unduplicated Impressions Unduplicated Impressions Impressions Unduplicated Impressions Impressions Unduplicated Impressions Impression I	ns x Program Program Fotal # Of Sch messages ressions posed to the sessions	C Insertions x Pr Schedule Total nedule Insertions - x 100 e message durin	rogram C Rating al TRPs Or Spots (All F Reach = ng the time fra Frequency =	TRPs Frequence TRPs Frequence TRPs Reach	
Schedule Average Rating Reach - The % of an au Reach Frequency - The average	= dience ex = e number =	(# Program A Insertion posed to one or more in Unduplicated Improverse of times a target is expected Impressions Unduplicated Impressions Unduplicated Impressions Unduplicated Impressions Impressions Unduplicated Impressions Impressions Unduplicated Impressions Impression I	ns x Program Program Fotal # Of Sch messages ressions posed to the sessions	C Insertions x Pr Schedule Total nedule Insertions - x 100 e message durin	rogram C Rating al TRPs Or Spots (All F Reach = ng the time fra Frequency =	TRPs Frequence TRPs Frequence TRPs Reach	
Schedule Average Rating Reach - The % of an au Reach Frequency - The averag Frequency (Efficiency) Index - Indice	= dience ex = e number = cates whe	(# Program A Insertion posed to one or more in Unduplicated Improverse of times a target is explained Improverse Unduplicated Improverse Unduplicated Improverse X Y	ns x Program Program Fotal # Of Sch messages ressions posed to the sessions	C Insertions x Prospections Schedule Total Schedule Insertions - x 100 - message during a message during serior lower than	rogram C Rating al TRPs Or Spots (All F Reach = ng the time fra Frequency =	TRPs Frequence TRPs Frequence TRPs Reach	
Schedule Average Rating Reach - The % of an au Reach Frequency - The averag Frequency (Efficiency) Index - Indic (Efficiency) Index	= dience ex = e number = cates whe	(# Program A Insertion posed to one or more in Unduplicated Improverse of times a target is explained Improverse Unduplicated Improverse Unduplicated Improverse X Y	ns x Program Program Fotal # Of Sch messages ressions posed to the sessions	C Insertions x Prospections Schedule Total Schedule Insertions - x 100 - message during a message during serior lower than	rogram C Rating al TRPs Or Spots (All F Reach = ng the time fra Frequency = the norm and	TRPs Frequence TRPs Frequence TRPs Reach	y

	CPP	= -	Cost Rating Poi	nts				
	CPP	= -	CPM 1,000		х	1%	6 Target Universe	
<u>Weig</u>	ghted CPP - Calcu	lated to reflec	t other plan compo	onents				
\	Weighted CPP	=	(Compone	ent 'A' CPP x %	Of Total) + (C	Component 'E	3' CPP x % Of Total)	
	Steps To Calcul Step 1: Step 4:	Calculate schedu		•	Calculate TRP 9 Add all sub-tota		Step 3: Confirm it to	otals 100%
	Steps To Detern Step 1:		edule Cost Based Or ed CPP by the total sch	•	<u> </u>			
	Steps To Deteri Step 1:		cal Plan Cost Based TRP % allocation have	_	CPP Step 2:	Multiply w	eighted CPP by # hypothetica	al plan TRPs
<u>Cost</u>	- (using algebra to	o back out of e	efficiency formulas	<u>)</u>				
	Cost =	CPP X	Rating (TRPs o	r GRPs)	Cost	= CPM	x Impressions	вМ
	Cost	=	Cost Per (clicks, re	sponses)	Х	(cli	cks, responses)	
Cost	Per (any metri	c you choose)	- Cost of advertisi	ng based on t	he number o	<u>f</u> (ot	her metric)	
(fil	Cost Per Il in metric here)	= -	(Fill in	Cost metric here)				
Com	position - The per	centage of the	e medium/vehicle t	that is compris	sed of the tar	get audienc	<u>:e</u>	
	Composition	= -	Media Target A Media Total Au		х	100		
Cove	erage - The relation	nship betweel	n the (target) comp	osition of the	vehicle vs. tl	ne total targ	et universe	
	Coverage	= -	Media Target A Target Univ		Х	100		
Inde	x (Selectivity) - Tai	rget comp of a	a media vehicle co	mpared to the	target comp	of the total	population	
In	dex (Selectivity)	= -	% Composition C % Composition Of		х	100		
Click	Thru Rate (CTR) -	- Ratio of click	s to ad impression	s (digital term	<u>)</u>			
	CTR	= -	Clicks Ad Impress	ions	Х	100		
BDI -	- Brand Developm	ent Index - M	easures the streng	th of the bran	d in a given r	<u>narket</u>		
	BDI	= -	% Brand Sa % US Popul		х	100		
CDI -	- Category Develo	pment Index -	- Measures the str	ength of the c	ategory in a o	given marke	<u>-</u> <u>t</u>	
	CDI	= -	% Category % US Popul		Х	100		
		j	BDI (120+)	Aver	age BDI (80-1:	20)	Low BDI (<80)	
⊦	ligh CDI (120+)	_	strong market - receive the local overlay	Investment	markets - heavy u	p to grow	Getting killed - do not consider is a new product/message to	
Ave	rage CDI (80-120)	history, make sure	g right - sustain - look at e the future plan sustains ese areas		rage - national me opportunity to hea		Better chance to regain share due to distribution vs ma	
	Low CDI (<80)	May not need as usually hold their	much support - markets own without much extra support	Sustain - these a	re areas that com first	oetitors attack	Unless client has a category me use these markets	-