Understanding Tire Sizes	ENTER TIRE	ENTER TIRE		ENTER TIRE
By Carl Lynn	STOCK SIZE	STOCK SIZE		Nitto NT-01
UTQC				100
If you don't have data pages or need dimensional information for a tire size, you can calculate nominal dimensions by using the following calculations. Individual tires may vary slightly from these dimensions.	Enter three (3) parameters in **yellow** below to determine tire revolutions per mile	Enter three (3) parameters in **yellow** below to determine tire revolutions per mile		Enter three (3) parameters in **yellow** below to determine tire revolutions per mile
	Proposed Front.	**Proposed Rear**		**Proposed Front.**
For example, a tire with size 235/60 HR15:	Enter Tire Section	Enter Tire Section		Enter Tire Section
	235	255		235
235 is the section with in mm. This tire is 235mm wide.				
60 is the aspect ratio. 60% of 235 is the height of the tire.	Enter Aspect Ratio, Example, .60 = 60%	Enter Aspect Ratio, Example, .60 = 60%		Enter Aspect Ratio, Example, .60 = 60%
HR is the speed rating.	40%	40%		35%
	Enter Wheel Size, Example, 16, 17, 18, 19	Enter Wheel Size, Example, 16, 17, 18, 19		Enter Wheel Size, Example, 16, 17, 18, 19
15 is the size of the rim in inches.	19	19		19
235 To convert to inches:				
Formula: Section Width in millimetres / 25.4 = Section Width in inches.	9.25	10.04		9.25
Example: 235 / 25.4 = 9.25" Nominal Section width.>				
60 To calculate Tire Section Height:				

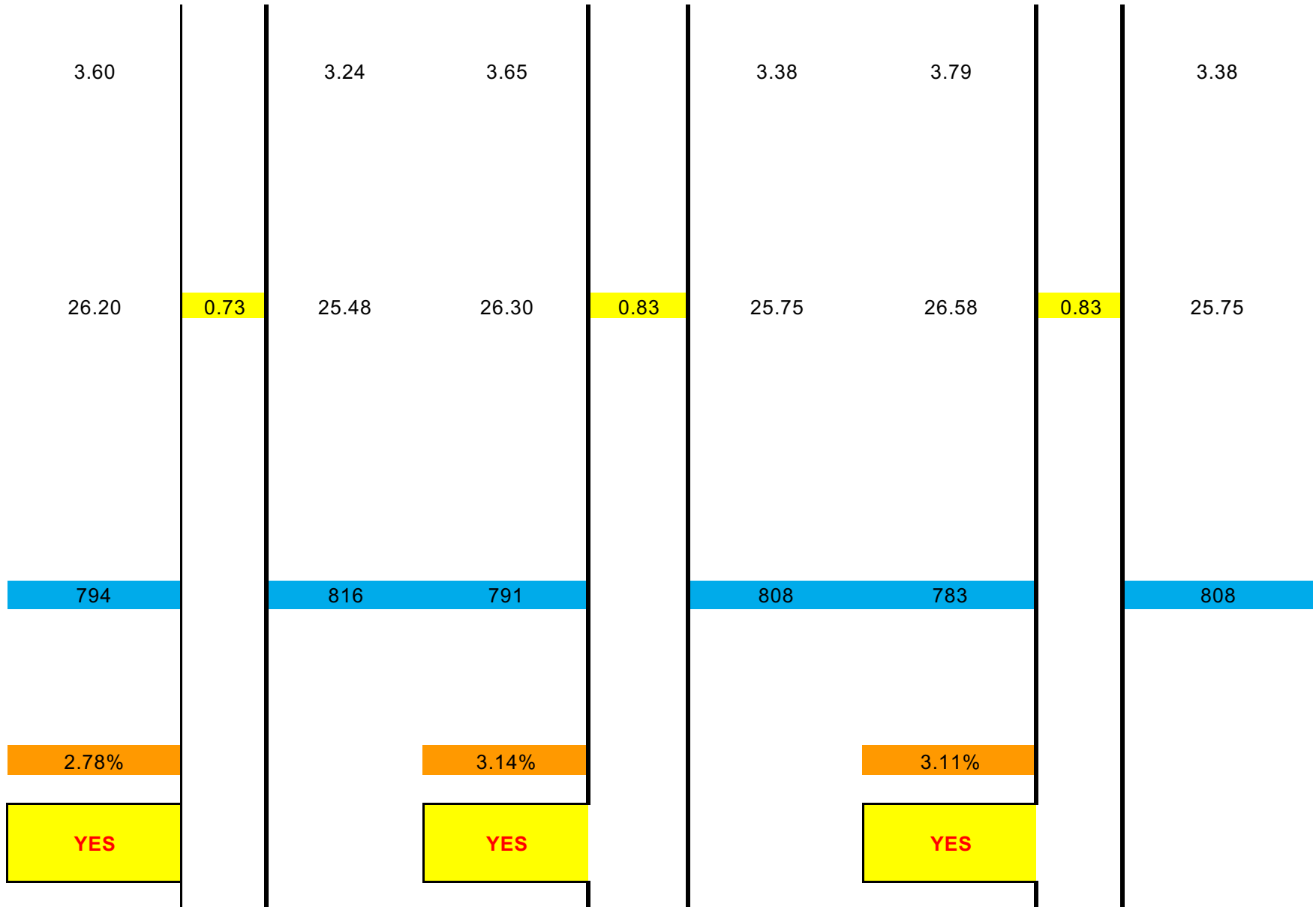|				
FORMULA: Section Width x Aspect Ratio Percentage = Section Height.	3.70	4.02		3.24
EXAMPLE: 9.25" x 60% = 5.55" Nominal Section Height.				
15 To calculate Nominal Overall Tire Diameter:				
FORMULA: (Section Height x 2) + Wheel Diameter =Overall Tire Diameter.	26.40	27.03	0.63	25.48
EXAMPLE: (5.55 x 2) + 15 = 26.1 " Nominal Overall Diameter.				
To estimate Tire Revolutions Per Mile:				
FORMULA: 20,800 / Overall Tire Diameter =Tire Revolutions Per Mile	788	769		816
EXAMPLE: 20,800 / 26.1 " = 796.9 Tire Revolutions Per Mile.				
Front to Rear Tire Percentage Delta **GOAL: 3% or <**		2.33%		
This section width is correct; assuming the tire is mounted on a wheel width that is 70% of the section width as specified by the Tire and Rim Association for measurement. In this case the rim would be 6.48" wide.		**Excellent**		

Since a tire's section width changes 0.2" for every 0.5" change in rim width, this change must be added or subtracted from the section width when alternate rim widths are being considered.

The tire's section width of 9.25" would be virtually unchanged when mounted on a 6.5" wheel, would increase to 9.45" when mounted on a 7.0" wide wheel, and would further increase to 9.85" when mounted on an 8.0" wide wheel.

| UTQC |
| Price |

ENTER TIRE	Dia. Delta	ENTER TIRE	ENTER TIRE	Dia. Delta	ENTER TIRE	ENTER TIRE	Dia. Delta	ENTER TIRE
Nitto NT-01		**Toyo Proxes R888R**	**Toyo Proxes R888R**		**Hankook RS4**	**Hankook RS4**		**RE 71R**
100		100	100		200	200		200
Enter three (3) parameters in **yellow** below to determine tire revolutions per mile		Enter three (3) parameters in **yellow** below to determine tire revolutions per mile	Enter three (3) parameters in **yellow** below to determine tire revolutions per mile		Enter three (3) parameters in **yellow** below to determine tire revolutions per mile	Enter three (3) parameters in **yellow** below to determine tire revolutions per mile		Enter three (3) parameters in **yellow** below to determine tire revolutions per mile
Proposed Rear		**Proposed Front.**	**Proposed Rear**		**Proposed Front.**	**Proposed Rear**		**Proposed Front.**
Enter Tire Section		Enter Tire Section	Enter Tire Section		Enter Tire Section	Enter Tire Section		Enter Tire Section
305	Too wide?	235	265		245	275		245
Enter Aspect Ratio, Example, .60 = 60%		Enter Aspect Ratio, Example, .60 = 60%	Enter Aspect Ratio, Example, .60 = 60%		Enter Aspect Ratio, Example, .60 = 60%	Enter Aspect Ratio, Example, .60 = 60%		Enter Aspect Ratio, Example, .60 = 60%
30%		35%	35%		35%	35%		35%
Enter Wheel Size, Example, 16, 17, 18, 19		Enter Wheel Size, Example, 16, 17, 18, 19	Enter Wheel Size, Example, 16, 17, 18, 19		Enter Wheel Size, Example, 16, 17, 18, 19	Enter Wheel Size, Example, 16, 17, 18, 19		Enter Wheel Size, Example, 16, 17, 18, 19
19		19	19		19	19		19
12.01		9.25	10.43		9.65	10.83		9.65

3.60		3.24	3.65		3.38	3.79		3.38
26.20	0.73	25.48	26.30	0.83	25.75	26.58	0.83	25.75
794		816	791		808	783		808
2.78%			3.14%			3.11%		
YES			YES			YES		

100

Americas Tire

UTQC	100
Price	$1,238
	Americas Tire

UTQC	200
Price	$1,233
	Tire Rack

UTQC
Price

ANTHONY'S TIRE	Every Day Price	
Michael	$600	<Front
	670	<Rear
	$1,270	
Includes Mount & Balance		

ENTER TIRE

RE 71R

200

Dia. Delta

Enter three (3) parameters in **yellow** below to determine tire revolutions per mile
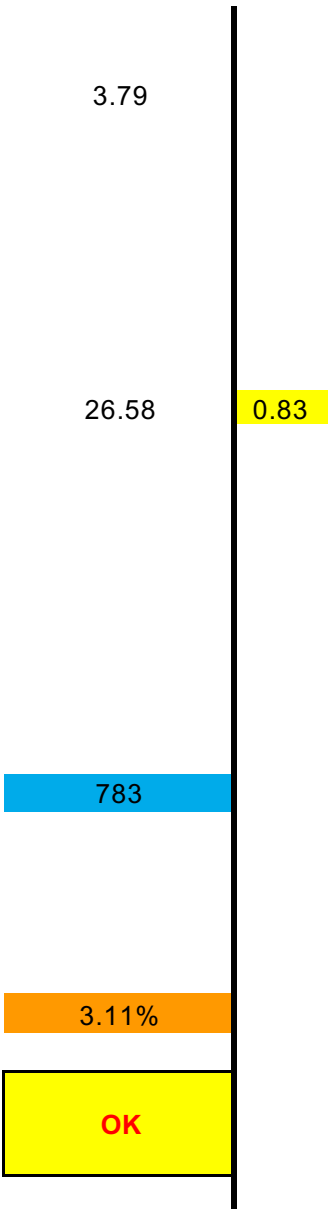
Proposed Rear

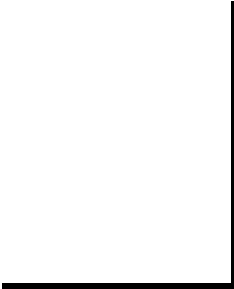Enter Tire Section

275

Enter Aspect Ratio, Example, .60 = 60%

35%

Enter Wheel Size, Example, 16, 17, 18, 19

19

10.83

3.79

26.58   0.83

783

3.11%

OK

200
$1,164
Discount Tire Direct